

The University of Chicago

WARING'S THEOREM FOR FOURTH POWERS

A DISSERTATION SUBMITTED TO THE
GRADUATE FACULTY IN CANDIDACY
FOR THE DEGREE OF DOCTOR OF
PHILOSOPHY

DEPARTMENT OF MATHEMATICS

1931

By

EMILY McCOY CHANDLER

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A table of one minimum decomposition of
4096 .. 28,561 into integral biquadrates > 0 .



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1. Introduction

In 1770 Waring stated that every positive integer p is a sum of nineteen integral biquadrates. This theorem has not yet been proved. In 1909, Wieferich¹ proved that thirty-seven biquadrates suffice, and in 1927, Dickson² proved that every positive integer p is a sum of seventeen biquadrates and ten doubles of biquadrates. Any biquadrate is congruent to 0 or 1, modulus 16, and from this it follows that no number congruent to 15, modulus 16, can be the sum of less than fifteen biquadrates. By a slight elaboration of this argument, Kempner³ proved that there is an infinite number of integers which may not be the sum of less than sixteen biquadrates. In 1853, at the suggestion of Jacobi, Bretschneider⁴ gave a Table 1 of all those decompositions of 1 .. 4100 into integral biquadrates > 0 for which the number of the latter is a minimum.

By methods suggested by L. E. Dickson, a Table II of one decomposition of 1 .. 28,500 into integral biquadrates > 0 for which the number of the latter is a minimum has been constructed. It is the purpose of this thesis to give the

¹Math. Annalen, 66, 1909, pp. 106-8.

²Am. Journal, 49, 1927, pp. 241-250.

³Math. Annalen, 72, 1912, pp. 395-6.

⁴Journal für Mathematik, 46, 1853, pp. 1-23.

essential part of Table II from 4100 to 28,500, and to prove certain results related to Waring's theorem. It is shown in §3 that every positive integer $p \leq 10^{10}$ is a sum of nineteen integral biquadrates, and that for $13,800 \leq p \leq 158,800$, every p is a sum of sixteen integral biquadrates. It is shown that every p which may not be expressed as a sum of less than sixteen biquadrates is congruent to 0 or 15, modulus 16, for $3800 \leq p \leq 94,000$, and is congruent to 0, modulus 16, with one exception, for $28,200 \leq p \leq 80,000$. A slight extension of Kempner's result is given in Theorems 5 and 6.

2. Definitions and Lemmas

DEFINITION 1. The form

$$(1) \quad (a_1 a_2 \dots a_n) = a_1 x_1^4 + \dots + a_n x_n^4, \quad a_i > 0,$$

is said to be of weight $a_1 + a_2 + \dots + a_n$. A form of weight $\underline{w}$ is equal to a sum of $\underline{w}$ integral biquadrates.

DEFINITION 2. A positive integer, p , is said to be representable by a form (1) if there exist integers x_i such that $p = a_1 x_1^4 + \dots + a_n x_n^4$. If p is representable by a form of weight $\underline{m}$, and is not representable by a form of lower weight with the same n , then p is said to be of weight $\underline{m}$.

LEMMA 1. If $p + (x^4 - y^4)$ is representable by a form of weight w , then $p + x^4$ is representable by a form of weight $(w + 1)$.

LEMMA 2. If every p such that $a \leq p \leq b$ is repre-

sentable by a form of weight w , then every p such that $a \leq p \leq b + (x+1)^4$ is representable by a form of weight $(w+1)$ if $(x+1)^4 - x^4 - 1 \leq b - a$.

For, the interval $a \dots b$ may be successively extended by adding in turn each biquadrate to the integers of $a \dots b$. In the extended interval each integer is the sum of $(w+1)$ biquadrates. No gap will appear in the extended interval in passing from $a + x^4$ to $b + (x+1)^4$ so long as $a + (x+1)^4 \leq b + x^4 + 1$.

3. Theorems Based on Table II

The results of this section are summarized in Table I of §4.

THEOREM 1. Every positive integer p , such that $13,800 \leq p \leq 158,800$, is a sum of sixteen integral biquadrates.

By Table II, the theorem is true for $13,793 \leq p \leq 28,561$.

For the extended result consider the following table.

		Add	Obtain
13921 .. 28561	$11^4 =$	14641	28562 .. 43202
14642 .. 28561	$13^4 =$	28561	43203 .. 57122
18707 .. 28561	$14^4 =$	38416	57123 .. 66977
16353 .. 28561	$15^4 =$	50625	66978 .. 79186
13651 .. 28561	$16^4 =$	65536	79187 .. 94097
10577 .. 28561	$17^4 =$	83521	94098 .. 112082
7107 .. 28561	$18^4 =$	104976	112083 .. 133537
3217 .. 28561	$19^4 =$	130321	133538 .. 158882

For each integer of the first interval of the first column which is of weight ≥ 16 , it is found by inspection of Table II

that y can be so chosen that $p + 11^4 - y^4$ is of weight ≤ 15 . Hence by Lemma 1, $p + 11^4$ is of weight ≤ 16 . Thus every integer in the first interval of the third column is of weight ≤ 16 . A similar argument applies to the other intervals of the third column.

THEOREM 2. Every positive integer $p \leq 10^{10}$ is a sum of nineteen integral biquadrates.

By Bretschneider's Table I, and Table II of §6, the theorem is true for $p \leq 28,561$. Next, consider the following table.

		Weight	Add	
13,793 ..	158,882	≤ 16	$33^4 =$	1,185,921
1,249 ..	1,344,803	≤ 17	$70^4 =$	24,010,000
560 ..	25,354,803	≤ 18	$185^4 =$	1,171,350,625
0 ..	1,196,705,428	≤ 19		

By Theorem 1, every integer of the first interval $a \dots b$ of the first column is of weight ≤ 16 . By Lemma 2, since $33^4 - 32^4 - 1 \leq b - a \leq 34^4 - 33^4 - 1$, every integer of the interval $a \dots b + 33^4$ is of weight ≤ 17 . By Table I of §4, the latter result may be extended downward to 1249. The remainder of the table as shown above is obtained in a similar manner.

THEOREM 3. Every positive integer p , $3800 \leq p \leq 94,000$, which is of weight ≥ 16 is $\equiv 0$ or $15 \pmod{16}$.

By Table I of §4, the theorem is true for

$3728 \leq p \leq 28,561$. Except for the gap $79,187 \dots 87,246$, the extended result of the theorem is proved by adding an even and an odd biquadrate to cover the same interval of extension.

Consider the following tables.

<u>Even</u>		
	Add	Obtain
7826 .. 28561	12^4	28562 .. 49297
10882 .. 28561	14^4	49298 .. 66977
1442 .. 28561	16^4	66978 .. 94097
<u>Odd</u>		
	Add	Obtain
13921 .. 28561	11^4	28562 .. 43202
14642 .. 28561	13^4	43203 .. 57122
6498 .. 28561	15^4	57123 .. 79186
13651 .. 21710	(16^4)	79187 .. 87246
3726 .. 10576	17^4	87247 .. 94097

Case 1. If p , of weight ≥ 16 , falls in one of the intervals $28,562 \dots 79,186$, $87,247 \dots 94,097$, by the above tables there are integers q and r , each of weight ≥ 15 , in the intervals $1442 \dots 28,561$ and $3726 \dots 28,561$ respectively, such that $p = q + x^4 = r + y^4$, where x is even and y is odd. By Table I of §4, $q \equiv 0, 15, 14$ or 13 and $r \equiv 0, 15$ or $14 \pmod{16}$. Hence $p \equiv 0, 15, 14$ or 13 and $p \equiv 1, 0$, or $15 \pmod{16}$, from which the theorem follows.

Case 2. If p , of weight ≥ 16 , falls in the interval $79,187 \dots 87,246$, by the second table above there is an r of weight ≥ 15 in the interval $13,651 \dots 21,710$ such that

$p = r + 16^4$. By Table I of §4, $r \equiv 0, 15 \text{ or } 14 \pmod{16}$. It remains only to show $r \not\equiv 14 \pmod{16}$. Inspection of Table II §6 shows that there are twenty-six integers of the interval 13,651 .. 21,710 of weight ≥ 15 which are $\equiv 14 \pmod{16}$. Application of Lemma 1 shows that each of these twenty-six integers increased by 16^4 is of weight < 16 .

THEOREM 4. Every positive integer p , $28,200 \leq p \leq 80,000$, which is of weight 16 is $\equiv 0 \pmod{16}$, with the possible exception of 78,031.

By inspection of Table II, the theorem is true for $28,192 \leq p \leq 28,561$. Consider the following table.

	Add	Obtain
13921 .. 28561	$11^4 = 14641$	28562 .. 43202
14642 .. 28561	$13^4 = 28561$	43203 .. 57122
6498 .. 28561	$15^4 = 50625$	57123 .. 79186
13651 .. 14464	$16^4 = 65536$	79187 .. 80000

Case 1. If p , of weight 16, falls in the interval 28,562 .. 79,186, by the table above there is an integer r of weight ≥ 15 in 6498 .. 28,561 such that $p = r + y^4$, where y is odd. Thus by Theorem 3 it suffices to show that $r \not\equiv 14 \pmod{16}$. Inspection of Table II shows that there are 132 integers $\equiv 14 \pmod{16}$ in 6498 .. 28,561. Applications of Lemma 1 show that each of these integers increased by y^4 is of weight < 16 except $78,031 = 27,406 + 15^4$.

Case 2. If p , of weight 16, falls in the interval 79,187 .. 80,000, by the table above there is an integer q

of weight ≥ 15 in $13,651 \dots 14,464$ such that $p = q + 16^4$. Again by Theorem 3 it suffices to show that $q \not\equiv 15 \pmod{16}$. Inspection of Table II shows that there are 51 integers of weight ≥ 15 which are $\equiv 15 \pmod{16}$ in $13,651 \dots 14,464$. Application of Lemma 1 shows that each of these 51 integers increased by 16^4 is of weight < 16 .

By a slight modification of Kempner's ⁽³⁾ proof that there exists an infinity of integers of weight ≥ 16 , it is readily shown that

(1) if p is of weight $m \leq 16$, $16p$ is of weight m ;
and (2) if $16p$ is of weight $m \leq 15$, p is of weight m .
The result in (1) is strengthened by the following theorem, which is proved by inspection of Table II and Theorem 1.

THEOREM 5. If p is a positive integer of weight > 16 , $16p$ is of weight 16 for the interval $13,792 \leq 16p \leq 158,882$.

Theorem 6 is also proved by inspection of Table II.

THEOREM 6. Every positive integer $16p$, $16p \leq 28,561$, which is of weight ≥ 16 , is such that p is of weight ≥ 16 .

4. Summary of Results

The results of Table II of §6 and of the theorems §3 are summarized in the following Table I. Consider the interval $0 < p \leq 559$ of column (1). In this interval there are 7 integers of weight 19, each $\equiv 15 \pmod{16}$, the last one occurring

at $p = 559$. Of weight 18, there are 7 integers $p \equiv 15 \pmod{16}$, and 7 integers $p \equiv 14 \pmod{16}$, the last $p \equiv 14$ occurring at $p = 558$. Similarly for the remainder of the table. The results for $p \leq 28,561$ may be verified by inspection of Table II; for $28,562 \leq p \leq 94,000$ by Theorems 1 .. 4.

TABLE I

	(1) $0 < p \leq 559$	(2) $560 \leq p \leq 1183$	(3) $1184 \leq p \leq 1248$	(4) $1249 \leq p \leq 3727$	(5) $3728 \leq p \leq 13792$	(6) $13793 \leq p \leq 28561$	(7) $28562 \leq p \leq 94000$
Weight	No.	No.	No.	No.	No.	No.	No.
19	$\equiv 15$ 7						
18	$\equiv 15$ $(\equiv 14)$ 7 7	$\equiv 0$ $(\equiv 15)$ 7 7	1 8	$(\equiv 0)$ 1			
17	$\equiv 15$ $\equiv 14$ $(\equiv 13)$ 7 7 7	$\equiv 0$ $\equiv 15$ $(\equiv 14)$ 2 8 8	$\equiv 0$ $\equiv 15$ 1 1	$\equiv 0$ $(\equiv 15)$ 5 8	$(\equiv 0)$ 11		
16	$\equiv 0$ $\equiv 15$ $\equiv 14$ $\equiv 13$ $(\equiv 12)$ 1 7 7 7 7	$\equiv 0$ $\equiv 15$ $\equiv 14$ $(\equiv 13)$ 2 8 8 8	$\equiv 0$ $\equiv 15$ $\equiv 14$ 1 1	$\equiv 0$ $\equiv 15$ $(\equiv 14)$ 12 74 10	$\equiv 0$ $\equiv 15$ 59 131	$\equiv 0$ $\equiv 15$ 60 17	$\equiv 0$ $\equiv 15$
15	$\equiv 0$ $\equiv 15$ $\equiv 14$ $\equiv 13$ $\equiv 12$ $(\equiv 11)$ 2 7 7 7 7 7	$\equiv 0$ $\equiv 15$ $\equiv 14$ $\equiv 13$ $(\equiv 12)$ 2 15 8 8 8	$\equiv 0$ $\equiv 15$ $\equiv 14$ $\equiv 13$ 1 2 2 1	$\equiv 0$ $\equiv 15$ $\equiv 14$ $(\equiv 13)$ 9 73 76 13	$\equiv 0$ $\equiv 15$ $\equiv 14$ 43 497 164	$\equiv 0$ $\equiv 15$ $\equiv 14$ 62 906 41	

5. Construction of Table II.

A Table II of one decomposition of 1 .. 28,561 into

integral biquadrates > 0 for which the number of the latter is a minimum has been constructed. The method of construction as suggested by L. E. Dickson is essentially as follows.

Write all possible decompositions into biquadrates of the integers within a convenient interval of table, 1 .. 256. When there are two decompositions for the same integer, retain in the table the decomposition giving the form of lower weight. Write the form of higher weight as left side of an equation, and set it equal to the form of lower weight. This equation is called a syzygy, and is used to eliminate possible decompositions to be considered in all the table following the place the syzygy occurs. When there are two decompositions for the same integer giving forms of the same weight, choose the left side of the syzygy by an arbitrary criterion. This arbitrary criterion, once used, must be adhered to in all such choices. By this process, one minimum decomposition for every integer is kept in the table 1 .. 256, and similarly, by convenient intervals to 28,561.

Numerous precautions to avoid errors are used. All possible decompositions within the interval of table to be considered are first written systematically on work sheets and then copied into the proper place in the table. These decompositions are checked independently for completeness. The work sheets contain every decomposition in the final table, and every syzygy used, and are checked independently at least

twice. The weight of each form is written opposite it, and in the final table, opposite each number, the maximum weight the form attains before the next entry occurs in the table. Each decomposition and its weight as written in the final table is checked several times by decompositions in the earlier part of the table. Before being used, a syzygy is checked numerically and algebraically, and the weight of the left side is checked as being greater than or equal to the weight of the right side.

6. Table II

In checking Bretschneider's Table 1 the following errors were found.

Number	Listed	Should Be
1134	0,0,1	0,0,14
977	0,6,0,11	0,6,0,1,1
1289	3,0,5,5,1	3,0,5,1,1
1610	0,0,9,11	0,0,9,1,1
2067	0,1,3,2,0	0,1,3,2,0,1
2323	Not listed	3,0,0,4,0,1
		0,1,3,3,0,1
2384	0,4,0,49,1	0,4,0,4,0,1
2516	0,1,0,0,0,4	0,1,0,0,4
2532	0,2,0,0,0,4	0,2,0,0,4
3025	0,6,1,1,0,1	0,6,1,1,0,2
3522	0,2,3,0,2	0,0,2,3,0,2
3541	0,4,0,1,2	0,0,4,0,1,2
3603	0,0,3,3,0,1	0,0,3,3,0,2
3723	0,0,10,2,0,1,1	0,0,10,2,0,0,1
4011	5,0,0,1	5,0,0,1,6

In the following Table II for 4096 .. 28,561, a minimum decomposition is given for each integer, thus

TABLE II

11

Number	1 ⁴	2 ⁴	3 ⁴	4 ⁴	5 ⁴	6 ⁴	7 ⁴	8 ⁴	Weight
<u>4096</u>	0	0	0	0	0	0	0	1	1
<u>97</u>	1	0	0	0	0	0	0	1	2
98	2	0	0	0	0	0	0	1	3
.					.				.
.					.				.
4110	14	0	0	0	0	0	0	1	15
11	15	0	0	0	0	0	0	1	<u>16</u>
<u>4112</u>	0	<u>1</u>	0	0	0	0	0	1	<u>2</u>

Only the parts underscored above actually appear in Table II.
 In reading Table II, 0, .. 5, are to be read as 10, .. 15,
 respectively.

TABLE II

4096	0000001	16	4305	8100001	10	4499	20032	7
4112	1000001	9	06	3200001	7	4500	120111	6
20	04041	16	08	200301	9	01	0500001	16
28	2000001	7	12	051201	13	12	0010001	12
33	01141	10	17	0706	15	13	00013	4
37	060201	15	20	4000001	15	14	0210001	8
44	3000001	8	21	9100001	11	19	030301	15
49	11141	8	22	000111	16	28	1010001	13
50	031201	11	36	5000001	16	29	10013	5
55	0506	15	37	0100001	12	30	1210001	6
60	4000001	7	38	100111	4	32	001301	9
63	002201	9	39	0300001	16	37	0207	15
68	0216	16	52	0010001	6	44	2010001	14
76	5000001	6	57	010301	15	45	20013	6
77	0100001	16	68	1010001	7	46	2210001	7
92	6000001	7	73	110301	7	48	101301	10
93	1100001	10	75	0007	15	53	1207	16
4201	05041	16	84	2010001	8	60	3010001	15
08	7000001	8	89	210301	8	61	30013	7
09	2100001	8	91	1007	14	62	3210001	8
14	02141	11	98	0806	15	64	201301	7
18	070201	15	4400	3010001	7	65	030111	16
24	8000001	9	03	010111	16	76	4010001	16
25	3100001	9	16	4010001	8	77	40013	8
30	12141	9	19	110111	5	78	001111	7
31	041201	12	20	0400001	16	82	0600001	17
36	0606	15	32	5010001	7	93	50013	9
40	9000001	10	33	0110001	7	94	101111	5
41	4100001	8	38	020301	15	95	0310001	9
44	012201	10	48	6010001	8	4600	040301	15
49	0316	16	49	1110001	8	08	0020001	7
56	0000001	11	54	120301	8	13	011301	10
57	5100001	7	56	0107	15	18	0307	15
58	0200001	16	64	7010001	9	24	1020001	8
72	1000001	12	65	2110001	6	29	111301	8
73	6100001	8	67	00032	9	31	0017	16
74	1200001	5	72	1107	15	40	2020001	9
76	000301	15	79	0906	15	45	211301	8
88	2000001	13	80	8010001	10	46	040111	16
89	7100001	9	81	3110001	7	56	3020001	8
90	2200001	6	83	10032	6	59	011111	8
92	100301	11	84	020111	16	63	0700001	16
99	080201	15	96	9010001	11	72	4020001	9
4304	3000001	14	97	4110001	8	75	111111	6

TABLE II

4676	0410001	10	4899	110002	5	5092	00042	10
81	050301	15	4901	000401	15	97	1108	16
88	5020001	8	12	3030001	9	5104	0907	16
89	0120001	8	15	210002	6	05	700021	10
94	021301	11	17	100401	12	06	301002	7
99	0407	15	24	080301	15	08	10042	7
4704	6020001	9	28	4030001	10	09	020211	16
05	1120001	9	31	310002	7	20	0040001	8
10	121301	9	33	200401	10	24	20042	8
12	0117	16	37	051301	14	25	120211	7
20	7020001	10	42	0707	15	26	040002	15
21	0001001	16	44	5030001	9	36	1040001	7
36	8020001	11	45	0130001	6	38	00023	5
37	1001001	9	47	000211	16	39	011002	8
44	0800001	16	60	6030001	10	44	030401	15
52	9020001	12	61	1130001	7	52	2040001	8
53	2001001	7	63	100211	5	54	10023	6
57	0510001	11	64	020002	15	55	111002	6
62	060301	15	76	7030001	11	57	001401	10
68	0020001	13	77	0011001	5	62	0208	15
69	3001001	5	80	120002	6	68	3040001	9
70	0220001	9	82	010401	15	70	20023	7
75	031301	12	92	8030001	12	71	211002	7
80	0507	15	93	000021	7	73	101401	11
84	1020001	14	98	110401	8	78	1208	16
85	4001001	6	5000	0008	15	84	00004	8
86	1220001	7	08	9030001	13	89	201401	8
88	002301	10	09	100021	8	90	030211	16
93	0217	16	14	210401	9	5200	10004	7
4800	2020001	15	16	1008	15	03	001211	8
01	5001001	7	23	0807	15	07	050002	15
02	000002	16	24	0030001	14	16	20004	8
17	6001001	8	25	200021	7	19	101211	6
18	100002	17	28	010211	16	20	021002	9
33	7001001	9	40	1030001	15	25	040401	15
34	200002	12	41	300021	8	32	30004	7
43	070301	16	44	110211	6	33	0021001	6
49	8001001	10	45	030002	16	36	121002	7
50	300002	10	57	400021	7	38	011401	11
56	041301	13	58	001002	7	43	0308	15
61	0607	15	63	020401	16	48	40004	8
64	0030001	8	73	500021	8	49	001021	8
69	012301	11	74	101002	8	54	111401	9
74	0317	16	79	120401	9	56	0018	16
80	1030001	7	81	0108	16	64	50004	9
83	010002	15	89	600021	9	65	101021	9
96	2030001	8	90	201002	6	70	211401	9

5271	040211	16	5473	0100101	10	5653	010311	16
80	60004	10	81	041401	14	64	1010101	8
81	201021	8	86	0608	15	69	110311	7
84	011211	9	88	6000101	8	70	030102	15
88	060002	15	89	1100101	8	80	2010101	7
96	70004	11	94	012401	12	83	001102	8
97	301021	9	99	0318	16	88	020501	15
5300	111211	7	5504	7000101	9	96	3010101	8
01	031002	10	05	2100101	7	99	101102	9
06	050401	15	08	010102	15	5704	120501	10
12	80004	12	20	8000101	10	06	0109	15
13	401021	8	21	3100101	8	12	4010101	9
14	002002	8	24	110102	6	15	201102	6
19	021401	12	26	000501	15	16	0400101	11
24	0408	15	36	9000101	11	22	1109	16
28	90004	13	37	4100101	9	28	5010101	8
29	501021	9	40	210102	7	29	0110101	8
30	102002	9	42	100501	13	34	020311	16
35	121401	10	49	080401	15	44	6010101	9
37	0118	16	52	0000101	12	45	1110101	9
44	00004	14	53	5100101	8	50	120311	8
45	601021	10	54	0200101	11	51	040102	15
46	0002001	16	62	051401	15	60	7010101	10
60	10004	15	67	0708	15	61	2110101	7
61	701021	11	68	1000101	13	63	00033	6
62	1002001	10	69	6100101	9	64	011102	9
69	070002	15	70	1200101	6	69	030501	15
76	0050001	7	72	000311	16	76	8010101	11
78	2002001	8	84	2000101	14	77	3110101	8
82	041002	11	85	7100101	10	79	10033	7
87	060401	15	86	2200101	7	80	111102	7
92	0000101	9	88	100311	6	82	001501	11
5400	031401	13	89	020102	15	87	0209	15
05	0508	15	5600	3000101	15	92	9010101	12
08	1000101	7	01	8100101	11	93	4110101	9
13	002401	11	02	0012001	6	95	20033	8
18	0218	16	05	120102	7	96	211102	7
24	2000101	6	07	010501	16	97	0500101	12
27	000102	15	17	9100101	12	5803	1209	16
40	3000101	7	18	000121	8	08	0010101	13
43	100102	10	23	110501	9	09	00014	5
50	080002	15	25	0009	15	10	0210101	9
56	4000101	8	32	0060001	8	15	030311	16
59	200102	8	34	100121	5	24	1010101	14
63	051002	12	35	0300101	10	25	10014	6
68	070401	15	41	1009	16	26	1210101	7
72	5000101	7	48	0010101	7	28	001311	9

TABLE II

5832	050102	15	6016	7020101	11	6213	100411	7
40	2010101	15	17	0001101	10	14	020202	15
41	20014	7	25	031501	14	24	4030101	11
42	2210101	8	30	0509	15	27	0013001	7
44	101311	7	32	8020101	12	30	120202	8
45	021102	10	33	1001101	8	32	010601	15
50	040501	16	38	002501	12	40	5030101	10
57	30014	8	43	0219	16	41	0130101	7
58	0022001	7	48	9020101	13	43	000221	9
61	121102	8	49	2001101	7	48	110601	10
63	011501	12	52	000202	15	50	0000	15
68	0309	16	64	0020101	14	56	6030101	11
73	40014	9	65	3001101	6	57	1130101	8
74	001121	8	66	0220101	7	59	100221	6
78	0600101	10	68	100202	11	60	020012	16
81	0019	16	75	080102	15	72	7030101	12
88	0070001	9	80	1020101	15	73	0011101	6
90	101121	6	81	4001101	7	76	120012	7
91	0310101	10	82	1220101	8	78	010411	16
96	040311	16	84	200202	9	88	8030101	13
5904	0020101	8	88	051102	13	89	000031	8
09	011311	10	93	070501	16	94	110411	8
13	060102	15	97	5001101	8	95	030202	15
20	1020101	9	98	000012	15	6304	9030101	14
25	111311	8	6111	0609	16	05	100031	7
26	031102	11	13	6001101	9	08	001202	9
31	050501	15	14	100012	13	13	020601	15
36	2020101	8	24	0319	17	20	0030101	15
39	002102	9	29	7001101	10	21	200031	8
44	021501	13	30	200012	7	24	101202	10
49	0409	15	33	010202	15	29	120601	11
52	3020101	9	44	0080001	10	31	0100	16
55	102102	9	46	300012	8	37	300031	9
59	0700101	11	49	110202	7	40	201202	7
62	0119	16	51	000601	15	41	030012	17
68	4020101	10	60	0030101	9	53	400031	8
71	0003001	16	65	210202	8	54	001012	8
84	5020101	9	67	100601	14	59	020411	17
85	0120101	6	74	080501	15	69	500031	9
87	1003001	11	76	1030101	8	70	101012	9
94	070102	15	79	010012	16	75	120411	9
6000	6020101	10	92	2030101	9	76	040202	16
01	1120101	7	95	110012	6	85	600031	10
03	2003001	9	97	000411	16	86	201012	7
07	041102	12	6208	3030101	10	88	00043	7
12	060501	15	11	210012	7	89	011202	10

6394	030601	15	6576	60005	11	6801	3010011	8
6400	0090001	11	77	10000001	16	04	03000001	15
02	301012	8	92	70005	12	16	8000201	11
04	10043	8	93	20000001	5	17	00100001	16
05	111202	8	96	0004001	16	32	9000201	12
07	001601	12	6608	80005	13	33	10100001	8
12	0200	15	09	30000001	6	39	020302	15
16	0040101	9	12	1004001	12	48	0000201	13
20	20043	9	19	070202	15	49	20100001	6
21	211202	8	24	90005	14	52	0014001	8
22	040012	16	25	40000001	7	55	120302	9
32	1040101	8	28	2004001	10	57	010701	15
34	00024	6	32	041202	13	64	1000201	14
35	011012	9	37	060601	15	65	30100001	7
40	030411	16	40	00005	15	68	000321	10
48	2040101	9	41	50000001	6	73	110701	11
50	10024	7	42	01000001	15	75	0001	15
51	111012	7	56	0000001	11	80	2000201	15
53	001411	10	57	60000001	7	81	40100001	8
57	050202	15	58	11000001	16	84	100321	7
64	3040101	10	72	0050101	8	85	04000001	16
66	20024	8	74	21000001	6	97	50100001	7
67	211012	8	77	000302	15	98	01100001	16
69	101411	8	88	0000201	7	6912	0010001	12
70	021202	11	93	100302	12	13	60100001	8
75	040601	15	6700	080202	15	14	11100001	9
80	00005	7	04	1000201	8	20	030302	15
83	0023001	8	09	200302	10	28	0060101	9
86	121202	9	13	051202	14	30	21100001	7
88	011601	13	18	070601	15	33	001302	10
93	0300	15	20	2000201	7	38	020701	15
96	10005	6	23	02000001	15	44	0010201	8
97	0000011	16	36	3000201	8	49	101302	11
6512	20005	7	39	12000001	16	54	120701	12
13	1000011	10	52	4000201	7	56	0101	15
21	040411	16	53	0010011	7	60	1010201	9
28	30005	8	58	010302	15	65	201302	8
29	2000011	8	68	5000201	8	66	05000001	15
34	011411	11	69	1010011	8	76	2010201	8
38	060202	15	74	110302	8	79	02100001	16
44	40005	9	76	000701	15	92	3010201	9
45	3000011	9	84	6000201	9	95	12100001	10
50	111411	9	85	2010011	9	7001	040302	15
51	031202	12	90	210302	9	08	4010201	8
56	050601	15	92	100701	15	09	0020011	8
60	50005	10	99	080601	15	14	011302	11
61	00000001	15	6800	7000201	10	19	030701	15

TABLE II

7024	5010201	9	7216	1020201	7	7394	000022	8
25	1020011	9	18	20010001	4	99	110402	9
30	111302	9	19	100003	16	7401	000801	16
32	001701	13	32	2020201	8	09	50300001	9
37	0201	15	34	30010001	5	10	01300001	9
40	6010201	10	35	02200001	13	15	210402	10
41	2020011	10	44	070302	15	17	100801	16
46	211302	9	48	3020201	9	24	0030001	14
47	06000001	15	50	40010001	6	25	60300001	10
56	7010201	11	51	12200001	11	26	11300001	8
57	3020011	8	57	041302	14	29	03010001	15
59	00034	7	62	060701	15	40	0080101	11
60	03100001	16	64	4020201	9	42	00110001	6
72	8010201	12	65	0030011	6	46	030003	15
73	00200001	11	67	01010001	15	56	0030201	7
82	050302	15	80	5020201	10	58	10110001	4
88	9010201	13	81	1030011	7	59	001003	8
89	10200001	9	83	11010001	4	64	020402	15
95	021302	12	84	010003	15	72	1030201	8
7100	040701	15	96	6020201	11	74	20110001	5
04	0010201	14	97	2030011	8	75	101003	9
05	20200001	7	99	21010001	5	80	120402	10
08	0024001	9	7300	110003	6	82	010801	15
11	121302	10	02	000402	15	88	2030201	9
13	011701	14	12	7020201	12	90	30110001	6
18	0301	15	13	0001201	6	91	02300001	7
20	1010201	15	16	03200001	7	93	000421	11
21	30200001	6	18	100402	13	98	110801	12
22	0001011	8	25	080302	15	7500	0002	15
28	07000001	16	28	8020201	13	04	3030201	10
37	40200001	7	29	00300001	8	06	40110001	7
38	1001011	6	34	200402	11	07	12300001	8
41	04100001	17	38	051302	15	09	100421	8
53	50200001	8	43	070701	15	10	04010001	15
54	01200001	12	44	9020201	14	20	4030201	10
63	060302	15	45	10300001	7	21	0040011	7
68	0020001	13	48	02010001	15	23	01110001	7
69	60200001	9	60	0020201	15	27	040003	15
70	11200001	10	61	20300001	8	36	5030201	11
76	031302	13	64	12010001	5	37	1040011	8
81	050701	15	65	020003	16	39	11110001	5
84	0070101	10	77	30300001	7	40	011003	9
86	00010001	15	78	0011011	6	45	030402	15
7200	0020201	6	81	120003	7	52	6030201	12
02	10010001	3	83	010402	16	53	2040011	9
03	000003	15	93	40300001	8	55	21110001	6

7556	111003	7	7714	10210001	5	7888	70006	13
58	001402	11	15	002003	9	89	20001001	6
63	020801	15	20	021402	13	92	01020001	15
68	7030201	13	25	040801	15	7904	80006	14
69	0011201	7	28	1040201	9	05	30001001	7
72	03300001	8	30	20210001	6	08	11020001	5
74	101402	12	31	102003	10	09	010103	15
79	120801	13	36	121402	11	20	90006	15
81	0102	15	38	011801	15	21	40001001	8
84	8030201	14	43	0302	15	24	21020001	6
85	00400001	9	44	2040201	10	25	110103	7
90	201402	9	46	30210001	7	27	000502	16
91	05010001	15	47	0002011	9	37	50001001	7
7600	9030201	15	53	07010001	15	38	01001001	14
01	10400001	8	60	3040201	11	50	080402	15
04	02110001	8	62	40210001	8	52	0000101	12
08	050003	16	63	1002011	7	53	60001001	8
17	20400001	9	66	04110001	10	54	11001001	12
20	12110001	6	70	070003	15	63	051402	16
21	021003	10	76	00006	8	68	0050201	9
26	040402	16	79	01210001	8	70	21001001	7
33	30400001	8	83	041003	12	73	02020001	15
34	0021011	7	88	060402	15	84	0000301	8
37	121003	8	92	10006	7	89	12020001	6
39	011402	12	93	0000111	10	90	020103	15
44	030801	16	7801	031402	14	8000	1000301	7
49	40400001	9	06	050801	15	03	0012011	7
50	001022	9	08	20006	8	06	120103	8
55	111402	10	09	1000111	5	08	010502	15
57	001801	14	11	00020001	15	16	2000301	8
62	0202	16	24	30006	9	19	02001001	10
65	50400001	10	25	2000111	6	26	000901	15
66	01400001	10	27	10020001	4	32	3000301	9
71	211402	10	28	000103	15	35	12001001	11
72	06010001	15	40	40006	10	42	100901	16
80	0040001	15	41	00500001	7	48	4000301	8
81	60400001	11	43	20020001	5	49	0010111	8
82	11400001	8	44	100103	11	54	03020001	15
84	00044	8	51	080003	15	64	5000301	9
85	03110001	9	56	50006	11	65	1010111	6
89	060003	15	57	00001001	13	67	00120001	7
96	0090101	12	69	070402	15	71	030103	15
98	00210001	7	72	60006	12	80	6000301	10
7702	031003	11	73	10001001	11	81	2010111	7
07	050402	15	82	041402	15	83	10120001	5
12	0040201	8	87	060801	15	84	001103	9

TABLE II

8089	020502	15	8288	6000002	8	8453	000203	15
96	7000301	11	89	1100002	11	64	1010002	7
97	00600001	8	97	06020001	15	68	20030001	6
99	20120001	6	8304	7000002	9	69	100203	12
8100	03001001	11	05	2100002	9	76	080103	15
07	010901	15	10	03120001	10	80	2010002	6
12	8000301	12	14	060103	15	82	00011001	14
13	00101001	12	20	8000002	10	94	070502	15
23	110901	13	21	3100002	7	96	3010002	7
25	000 <u>3</u>	15	23	00220001	8	98	10011001	4
28	9000301	13	27	031103	12	99	000013	16
29	10101001	9	32	050502	15	8512	4010002	8
35	04020001	15	36	9000002	11	14	20011001	5
44	0000301	14	37	4100002	8	15	100013	6
45	20101001	7	39	10220001	6	17	01030001	15
48	01120001	8	40	002103	8	28	5010002	8
52	040103	15	43	06001001	14	29	0110002	7
60	1000301	15	50	040901	15	33	11030001	6
61	30101001	8	52	0000002	12	34	010203	15
64	11120001	6	53	00700001	8	44	6010002	9
65	011103	10	54	0200002	12	45	1110002	8
70	030502	16	63	011901	16	49	21030001	7
77	40101001	9	68	1000002	13	50	110203	8
80	21120001	7	69	00201001	6	52	000602	15
81	04001001	12	72	0003011	10	60	7010002	10
88	020901	15	78	07020001	15	61	2110002	7
92	0000002	13	84	2000002	14	63	01011001	15
8204	120901	14	85	10201001	7	75	080502	15
06	010 <u>3</u>	15	88	1003011	8	76	8010002	11
08	1000002	10	91	04120001	11	77	3110002	8
16	05020001	15	95	070103	15	79	11011001	5
24	2000002	8	8400	3000002	15	80	010013	16
29	02120001	9	01	20201001	8	92	9010002	12
33	050103	15	04	01220001	9	93	4110002	9
40	3000002	9	08	041103	13	95	21011001	6
45	12120001	7	13	060502	16	96	110013	7
46	021103	11	17	30201001	7	98	02030001	15
51	040502	15	18	0001111	9	8608	0010002	13
56	4000002	8	24	07001001	15	09	0001301	5
59	0022011	8	31	050901	16	10	0210002	8
62	05001001	13	33	40201001	8	14	12030001	7
69	030901	15	34	1001111	5	15	020203	15
72	5000002	7	35	0300002	5	24	1010002	14
73	0100002	11	36	00030001	15	25	00301001	7
82	001901	15	48	0010002	6	28	0013011	8
87	020 <u>3</u>	15	52	10030001	5	31	120203	9

8633	010602	15	8813	020Q01	15	8997	0004011	11
40	2010002	15	16	7020002	11	9003	07030001	15
41	10301001	8	17	0001002	8	08	3030002	9
44	02011001	11	23	040013	15	10	30000101	7
51	000Q01	16	31	0104	15	13	1004011	9
57	20301001	9	32	8020002	12	16	04130001	12
60	12011001	6	33	1001002	6	20	070203	15
61	020013	17	36	011013	10	24	4030002	10
73	30301001	8	41	05030001	15	26	40000101	8
74	0011111	7	48	9020002	13	29	01230001	10
77	120013	8	49	2001002	7	33	041203	14
79	03030001	16	52	111013	8	38	060602	15
89	40301001	9	54	02130001	10	40	5030002	10
90	000032	6	58	050203	15	41	0130002	7
92	00130001	8	64	0020002	14	43	01000101	15
96	030203	15	65	3001002	6	56	6030002	11
8704	0020002	7	66	0220002	9	57	1130002	8
08	10130001	6	70	12130001	8	59	11000101	5
09	001203	10	71	021203	12	61	00040001	15
14	020602	15	76	040602	15	72	00007	7
20	1020002	8	80	1020002	15	73	0011002	5
24	20130001	7	81	00401001	8	75	21000101	6
25	03011001	12	84	0023011	9	77	10040001	6
32	010Q01	15	87	05011001	14	78	000303	15
36	2020002	7	94	03Q001	16	88	10007	8
38	00111001	7	97	10401001	7	89	0000211	7
42	030013	14	98	0000021	16	93	20040001	7
50	0004	15	8912	0204	16	94	100303	13
52	302Q002	8	13	20401001	8	9101	080203	15
54	10111001	5	14	1000021	11	04	20007	9
55	001013	9	22	06030001	16	05	1000211	6
60	04030001	15	29	30401001	9	07	00021001	15
68	4020002	9	30	2000021	9	19	070602	15
70	20111001	6	35	03130001	11	20	30007	10
71	101013	7	39	060203	16	21	2000211	7
73	01130001	9	45	40401001	10	23	10021001	5
77	040203	15	46	3000021	7	24	02000101	15
84	5020002	9	48	00230001	9	36	40007	11
85	0120002	8	52	031203	13	37	00501001	8
89	11130001	7	57	050602	15	39	20021001	6
90	011203	11	60	0030002	6	40	12000101	6
95	030602	15	62	00000101	15	42	01040001	15
8800	6020002	10	76	1030002	7	52	50007	12
01	1120002	9	78	10000101	16	53	00002001	7
05	21130001	8	92	2030002	8	58	11040001	7
06	04011001	13	94	20000101	6	59	010303	15

TABLE II

9168	60007	13	9350	03021001	13	9520	2000102	7
69	10002001	8	57	010101	15	23	0001021	9
74	21040001	8	60	5000401	10	29	07000101	15
75	110303	9	61	1010211	7	36	3000102	8
77	000702	15	63	00121001	8	39	1001021	7
84	70007	14	67	05000101	15	42	04100101	11
85	20002001	7	76	6000401	11	47	06040001	15
88	01021001	16	77	2010211	8	52	4000102	9
9200	80007	15	79	10121001	6	55	01200101	9
01	30002001	8	80	02100101	9	60	03140001	12
04	11021001	6	85	04040001	15	64	060303	15
05	03000101	15	92	7000401	12	68	5000102	8
16	0040002	7	93	00601001	9	69	0100102	7
18	00100101	7	95	20121001	7	73	00240001	10
23	02040001	15	96	12100101	7	77	031303	14
32	1040002	8	98	01140001	10	82	050702	15
34	10100101	8	9402	040303	15	84	6000102	9
39	12040001	8	08	8000401	13	85	1100102	6
40	020303	15	09	00102001	8	87	00010101	15
48	2040002	9	14	11140001	8	9600	7000102	10
50	20100101	7	15	011303	12	01	2100102	7
53	0014011	9	20	030702	15	03	10010101	4
56	120303	10	24	9000401	14	04	000004	15
58	010702	15	25	10102001	9	16	8000102	11
64	3040002	10	30	21140001	9	17	3100102	8
66	30100101	8	31	04021001	14	19	20010101	5
69	02021001	12	38	020101	15	20	100004	12
76	000101	15	40	0000401	15	28	07040001	15
80	0000401	9	41	20102001	6	32	9000102	12
85	12021001	7	42	0002002	9	33	4100102	9
86	04000101	15	48	06000101	16	35	30010101	6
96	1000401	8	57	30102001	7	36	02200101	10
99	01100101	8	58	1002002	7	41	04140001	13
9304	03040001	15	61	03100101	10	45	070303	15
12	2000401	9	66	05040001	15	48	0000102	13
15	11100101	6	72	0050002	8	49	00701001	9
17	00140001	9	74	00200101	8	50	0200102	8
21	030303	15	79	02140001	11	54	01240001	11
28	3000401	8	83	050303	15	58	041303	15
29	0021002	6	88	0000102	9	63	060702	15
31	21100101	7	95	12140001	9	64	1000102	14
33	10140001	7	96	021303	13	65	00202001	7
34	001303	11	9501	040702	15	68	01010101	15
39	020702	15	04	1000102	8	80	2000102	15
44	4000401	9	09	0024011	10	81	10202001	8
45	0010211	8	12	05021001	15	84	11010101	5
49	20140001	8	19	030101	15	85	010004	16

9697	20202001	7	9873	3110102	9	10045	030802	15
98	0012002	6	75	20110101	6	48	300000001	8
9700	21010101	6	76	101004	10	51	001023	10
01	110004	7	81	120403	11	56	04031001	15
03	000403	16	83	010802	15	63	020201	15
13	30202001	8	88	9010102	13	64	400000001	7
14	0001211	7	89	4110102	10	67	0003002	10
17	03200101	8	91	30110101	7	73	06010101	15
19	100403	14	92	02300101	8	80	500000001	6
26	080303	15	94	02031001	13	81	010000001	10
28	0060002	9	9901	000201	15	90	060004	15
30	00300101	6	04	0010102	14	96	600000001	7
32	00031001	16	05	0001401	6	97	110000001	8
44	0010102	7	06	0210102	9	10103	031004	12
48	10031001	6	10	12031001	8	00	050403	15
49	02010101	15	11	04010101	15	12	700000001	8
60	1010102	8	20	1010102	15	13	210000001	6
64	20031001	7	21	00302001	8	16	002004	10
65	12010101	6	24	01110101	8	21	021403	14
66	020004	15	28	040004	16	26	040802	15
76	2010102	7	37	10302001	9	28	800000001	9
78	00012001	7	40	11110101	6	29	310000001	7
82	120004	8	41	011004	10	32	102004	11
84	010403	15	46	030403	16	37	05031001	16
92	3010102	8	53	20302001	8	44	900000001	10
94	10012001	5	54	0022002	7	45	410000001	8
95	000023	9	56	21110101	7	48	0002021	10
9800	110403	10	57	111004	8	54	07010101	15
02	000802	15	59	001403	12	60	000000001	11
08	4010102	9	64	020802	16	61	510000001	7
10	20012001	6	69	30302001	9	62	020000001	11
11	01300101	7	70	0011211	8	71	070004	15
13	01031001	16	73	03300101	9	76	100000001	12
24	5010102	9	75	03031001	14	77	00402001	7
25	0110102	8	82	010201	15	78	120000001	9
29	11031001	7	84	0070002	10	84	041004	13
30	03010101	15	86	00400101	7	89	060403	15
40	6010102	10	88	00131001	9	92	200000001	13
41	1110102	7	92	05010101	15	93	10402001	8
43	00110101	7	10000	000000001	9	94	0000121	11
47	030004	15	09	050004	15	10202	031403	15
56	7010102	11	16	100000001	7	07	050802	15
57	2110102	8	22	021004	11	08	300000001	14
59	10110101	5	27	040403	15	09	20402001	9
60	001004	9	32	200000001	8	10	1000121	6
65	020403	15	38	121004	9	12	00020101	15
72	8010102	12	40	011403	13	24	400000001	15
						25	30402001	10

TABLE II

10226	2000121	7	10409	010503	15	10579	0023002	7
28	10020101	5	16	30008	11	80	041000001	7
29	000104	15	17	2000311	7	82	04001101	13
40	0080002	11	18	021000001	5	89	020902	15
42	00500101	7	20	02001101	11	92	1000501	7
43	030000001	12	27	000902	15	93	0000012	9
52	080004	15	32	40008	12	10600	03041001	15
56	001000001	3	33	00502001	8	07	010301	15
58	00001101	14	34	121000001	6	08	2000501	8
70	070403	15	36	12001101	7	09	1000012	7
72	101000001	4	38	01041001	16	13	00141001	10
74	10001101	12	48	50008	13	17	05020101	15
83	041403	16	49	00003001	8	24	3000501	9
88	201000001	5	54	11041001	8	25	000100001	10
90	20001101	7	55	03020101	15	34	050104	15
93	01020101	15	64	60008	14	40	4000501	10
10304	301000001	6	65	10003001	7	41	100100001	8
06	30001101	8	68	00120101	8	47	021104	12
09	11020101	6	72	030104	15	52	040503	15
10	010104	15	80	70008	15	56	5000501	11
20	401000001	7	81	20003001	8	57	00000011	14
22	40001101	7	84	10120101	6	70	030902	15
23	0013002	6	85	001104	10	72	6000501	12
24	040000001	8	90	020503	15	73	10000011	10
28	000503	15	96	0090002	11	81	04041001	16
36	501000001	7	97	30003001	8	88	7000501	13
37	011000001	4	99	031000001	6	89	20000011	6
39	01001101	15	10501	03001101	12	92	0004002	11
51	080403	15	08	010902	15	98	06020101	15
52	601000001	8	12	002000001	4	10704	8000501	14
53	111000001	5	14	00101101	8	05	30000011	5
55	11001101	6	19	02041001	14	06	010100001	11
57	00041001	16	26	000301	15	15	060104	15
68	00008	8	28	102000001	5	20	9000501	15
69	211000001	6	30	10101101	9	21	40000011	6
71	21001101	7	35	12041001	9	22	110100001	9
73	10041001	7	36	04020101	15	28	031104	13
74	02020101	15	44	202000001	6	33	050503	16
84	10008	9	46	20101101	8	37	50000011	7
85	0000311	8	49	01120101	9	38	01000011	15
89	20041001	8	53	040104	15	51	040902	15
90	12020101	7	60	302000001	7	52	0000002	12
91	020104	15	62	30101101	9	53	60000011	8
10400	20008	10	65	11120101	7	54	11000011	11
01	1000311	7	66	011104	11	62	05041001	16
03	0002001	6	71	030503	15	68	003000001	5
05	050000001	9	76	0000501	8	70	21000011	7

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79	07020101	15	78	111100001	6	51	000401	15
84	0000202	6	80	11011101	6	52	7010202	12
87	020100001	12	81	04000011	17	53	102100001	6
96	070104	15	93	50100011	8	55	10111101	6
10800	1000202	7	94	01100011	8	56	03100011	10
03	120100001	10	99	02030101	15	61	04030101	15
09	041104	14	11008	0010002	13	68	8010202	13
14	060503	15	09	60100011	9	69	00200011	8
16	2000202	8	10	11100011	9	74	01130101	10
19	02000011	16	15	12030101	8	78	040204	15
32	3000202	9	16	020204	15	84	9010202	14
35	12000011	6	24	004000001	6	85	10200011	9
37	00030101	15	26	21100011	7	90	11130101	8
48	4000202	8	28	00032001	7	91	011204	12
49	0010012	7	30	050100001	10	96	030603	15
53	10030101	6	34	010603	15	11200	0010202	15
54	000204	15	40	0010202	7	01	20200011	8
64	5000202	9	43	021100001	6	04	0024002	8
65	1010012	7	45	02011101	12	05	041100001	8
68	030100001	13	52	000002	15	07	04011101	14
77	080104	15	56	1010202	8	14	020002	16
80	6000202	10	59	121100001	7	17	30200011	7
81	001100001	4	61	12011101	7	18	0001012	9
83	00011101	15	62	05000011	16	24	07000011	16
95	070503	15	72	2010202	8	32	010401	16
96	7000202	11	74	00013001	5	33	40200011	8
97	101100001	5	75	02100011	9	34	1001012	7
99	10011101	5	80	03030101	15	37	04100011	11
10900	03000011	16	88	3010202	9	42	05030101	16
12	8000202	12	90	10013001	6	49	50200011	9
13	00100011	7	91	12100011	7	50	000200001	11
18	01030101	15	93	00130101	9	59	050204	15
28	9000202	13	97	030204	15	64	0020002	14
29	10100011	8	11104	4010202	9	65	60200011	10
34	11030101	7	05	0020012	8	66	100200001	9
35	010204	15	09	10130101	7	72	021204	13
44	0000202	14	10	001204	11	77	040603	15
45	20100011	7	15	020603	15	80	005000001	7
48	0014002	7	20	5010202	10	82	00010011	15
49	040100001	9	21	1020012	8	95	030002	15
53	000603	15	24	031100001	7	96	000010001	4
60	1000202	15	26	03011101	13	99	0000031	16
61	30100011	6	33	010002	15	11312	100010001	5
62	011100001	5	36	6010202	11	15	1000031	12
64	01011101	16	37	002100001	5	23	06030101	15
76	080503	16	39	00111101	8	28	200010001	6

11331	010200001	12	11504	300010001	15	11665	211010001	7
40	060204	15	05	50300011	10	67	30100201	7
44	300010001	7	06	001200001	5	68	021200001	7
47	110200001	10	08	00021101	16	70	02021101	13
53	031204	14	20	0030002	15	77	000102	15
58	050603	15	21	60300011	11	80	10009	10
60	400010001	6	22	101200001	6	81	00400011	8
61	0030012	7	24	10021101	6	84	121200001	8
63	00000201	15	25	02000201	15	86	12021101	8
76	500010001	7	36	006000001	8	87	04000201	15
77	010010001	4	38	00110011	6	96	20009	11
79	10000201	16	41	12000201	7	97	10400011	8
92	600010001	8	43	01040101	15	99	00023001	6
93	110010001	5	52	001010001	4	11700	01100201	9
95	20000201	7	54	00002101	8	05	03040101	15
98	0004021	12	59	11040101	8	12	30009	12
11404	07030101	15	60	010304	15	13	20400011	8
08	700010001	9	68	101010001	5	14	021010001	6
09	210010001	6	70	10002101	8	16	11100201	7
11	30000201	6	74	040200001	10	18	00140101	10
12	020200001	13	78	000703	15	22	030304	15
21	070204	15	84	201010001	6	28	40009	13
24	800010001	10	86	20002101	6	29	30400011	9
25	00300011	7	87	011200001	6	30	121010001	7
28	120200001	11	89	01021101	16	32	21100201	8
34	041204	15	11600	301010001	7	34	10140101	8
39	060603	15	02	30002101	7	35	001304	12
40	900010001	11	03	111200001	7	40	020703	15
41	10300011	8	05	11021101	7	44	50009	14
44	01000201	15	06	03000201	15	45	00004001	8
56	000010001	12	16	401010001	7	49	031200001	8
57	20300011	7	17	0040012	8	51	03021101	14
58	020010001	5	19	00100201	8	58	010102	15
60	11000201	6	24	02040101	15	60	60009	15
62	00040101	15	32	501010001	8	61	10004001	6
72	100010001	13	33	011010001	5	62	002200001	6
73	30300011	8	35	10100201	9	64	00121101	9
74	120010001	6	40	12040101	9	68	05000201	16
76	21000201	7	41	020304	15	77	20004001	7
78	10040101	7	48	601010001	9	78	102200001	7
79	000304	15	49	111010001	6	80	10121101	7
88	200010001	14	51	20100201	7	81	02100201	10
89	40300011	9	53	00042001	8	86	04040101	15
90	0000221	7	55	050200001	11	92	007000001	8
93	030200001	14	59	010703	15	93	30004001	8
11502	080204	15	64	00009	9	94	00210011	7
						97	12100201	8
						99	01140101	11

11803	040304	15	11972	110300001	11	12147	101300001	7
08	002010001	5	78	031304	15	49	10031101	7
10	00102101	9	83	050703	15	50	02010201	15
15	11140101	9	84	7000601	14	60	5000302	10
16	011304	13	85	20001011	7	61	1010112	7
21	030703	15	88	00010201	15	63	00120011	7
24	102010001	6	12000	8000601	15	66	12010201	7
26	10102101	9	01	30001011	6	67	020005	15
30	041200001	9	02	010110001	5	76	6000302	11
32	04021101	15	04	10010201	5	77	001110001	5
39	020102	15	05	000005	16	79	00012101	8
40	202010001	7	17	40001011	7	83	120005	9
42	20102101	7	18	110110001	6	85	010404	15
43	0002012	10	20	20010201	6	92	7000302	12
49	06000201	15	21	100005	13	93	101110001	6
56	302010001	8	29	07040101	16	95	10012101	6
58	30102101	8	33	50001011	8	96	03001011	8
59	1002012	8	34	01001011	6	99	040300001	11
62	03100201	11	37	020300001	14	12203	000803	15
67	05040101	15	46	070304	15	08	8000302	13
72	0000601	9	48	008000001	9	09	00101011	6
75	000300001	12	49	60001011	9	12	011300001	7
84	050304	15	50	11001011	7	14	01031101	16
88	1000601	8	53	120300001	12	24	9000302	14
89	0000112	5	59	041304	16	25	10101011	7
91	100300001	10	64	003010001	6	28	111300001	8
97	021304	14	66	21001011	8	30	11031101	8
11902	040703	15	69	01010201	15	31	03010201	15
04	2000601	9	80	0000302	7	40	0000302	15
05	1000112	6	83	020110001	6	41	20101011	8
07	00020011	16	85	11010201	6	44	00110201	8
20	3000601	10	86	010005	15	48	030005	16
21	000110001	5	96	1000302	9	57	30101011	7
24	0001031	10	99	120110001	7	58	011110001	6
30	07000201	15	12101	21010201	7	60	10110201	6
36	4000601	11	02	110005	8	61	001005	10
37	100110001	6	04	000404	15	66	020404	16
40	1001031	8	12	2000302	9	73	40101011	8
43	04100201	12	15	02001011	7	74	111110001	7
48	06040101	15	18	030300001	15	76	20110201	7
52	5000601	12	27	080304	15	77	04001011	9
53	00001011	5	28	3000302	10	80	050300001	12
56	010300001	13	31	001300001	6	84	010803	15
65	060304	15	33	00031101	16	88	0000003	7
68	6000601	13	44	4000302	9	93	021300001	8
69	10001011	6	45	0010112	6	95	02031101	14

12302	000202	15	12455	041300001	10	12630	000105	15
04	1000003	8	57	04031101	16	40	300020001	6
09	121300001	9	64	1000003	14	41	1110003	7
11	12031101	9	65	00201011	7	43	110210001	6
12	04010201	15	68	0003012	11	44	030001001	13
20	2000003	8	74	06010201	15	53	080005	15
24	00033001	7	80	2000003	15	56	400020001	7
25	01110201	9	81	10201011	6	57	001001001	4
29	040005	15	82	010001001	11	59	00001201	15
36	3000003	8	91	060005	16	71	070404	15
39	021110001	7	97	20201011	7	72	500020001	8
41	11110201	7	98	110001001	5	73	101001001	5
42	011005	11	12500	000400001	13	75	10001201	13
47	030404	15	09	050404	16	84	041404	16
52	4000003	9	13	30201011	8	88	600020001	9
55	121110001	8	14	210001001	6	89	201001001	6
57	21110201	8	16	100400001	11	91	20001201	8
58	05001011	9	22	021404	15	94	01020201	15
60	001404	13	27	040803	16	12704	700020001	10
65	020803	15	29	40201011	9	05	301001001	6
68	5000003	8	30	310001001	6	06	0210003	7
69	0100003	8	31	0300003	6	08	020210001	7
74	031300001	9	32	00030011	16	10	11020201	7
76	03031101	15	44	0010003	5	11	010105	15
83	010202	15	46	000210001	6	20	800020001	11
84	6000003	9	49	0002031	11	21	00301011	8
85	1100003	6	55	07010201	15	24	120210001	7
87	002300001	7	60	1010003	6	25	040001001	9
89	00131101	10	62	100210001	5	29	000504	15
93	05010201	15	63	020001001	12	36	900020001	12
12400	7000003	10	72	070005	15	37	10301011	7
01	000001001	10	76	2010003	7	38	011001001	5
10	050005	15	78	00011011	6	40	01001201	16
16	8000003	11	81	010400001	14	52	000020001	13
17	100001001	8	90	060404	15	53	20301011	8
23	021005	12	92	000020001	5	54	111001001	6
28	040404	15	95	0000131	12	56	001400001	7
32	9000003	12	12603	031404	16	58	00041101	16
33	200001001	9	08	100020001	6	68	100020001	14
39	06001011	10	11	1000131	7	69	30301011	9
41	011404	14	13	00020201	15	70	211001001	7
46	030803	15	24	200020001	5	72	101400001	8
48	0000003	13	25	0110003	6	74	10041101	8
49	300001001	5	27	010210001	6	75	02020201	15
50	0200003	9	29	10020201	6	84	200020001	15

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86	0000321	7	36	12041101	10	90	20000111	7
88	00130011	8	37	04020201	15	93	0004012	12
91	12020201	8	44	601020001	10	99	06020201	15
92	020105	15	45	202001001	7	13104	002020001	6
12800	0020003	6	47	20101201	8	06	30000111	6
02	001210001	6	49	00043001	8	07	010101001	12
04	00022101	7	50	01120201	10	16	060105	15
06	050001001	10	54	040105	15	20	102020001	7
10	010504	15	60	00000	10	22	00000002	15
16	1020003	7	61	302001001	7	36	202020001	7
18	101210001	6	62	0220003	8	37	0130003	7
19	021001001	6	64	021210001	8	38	10000002	16
21	02001201	12	66	11120201	8	52	302020001	8
28	000903	15	67	011105	12	53	1130003	8
32	2020003	8	72	030504	15	54	20000002	6
34	00111011	7	76	10000	11	57	00040011	16
37	011400001	8	77	00401011	9	68	0000701	8
39	01041101	16	80	121210001	8	69	003001001	5
48	001020001	5	81	041001001	8	70	30000002	5
50	00003101	9	83	04001201	14	71	000310001	7
55	11041101	9	90	020903	15	74	0003031	12
56	03020201	15	92	20000	12	80	07020201	15
64	101020001	6	93	10401011	8	84	1000701	9
66	10003101	8	94	0000022	10	85	0000212	6
69	00120201	9	13001	03041101	16	87	100310001	6
73	030105	15	08	30000	13	88	020101001	13
80	201020001	6	09	20401011	9	97	070105	15
81	0120003	7	10	1000022	8	13200	2000701	10
83	011210001	7	14	00141101	11	01	1000212	7
85	10120201	7	18	05020201	15	03	01000002	15
86	001105	11	24	40000	14	16	3000701	11
91	020504	15	25	30401011	10	17	000120001	5
96	301020001	7	26	000101001	11	19	11000002	16
97	1120003	8	35	050105	15	32	4000701	12
99	111210001	7	40	50000	15	33	100120001	6
12900	031001001	7	41	00005001	6	35	21000002	7
02	03001201	13	42	100101001	9	38	00030201	15
09	010903	15	48	021105	13	48	5000701	13
12	401020001	8	53	040504	15	49	00002011	6
13	002001001	5	56	0030003	7	52	010310001	7
15	00101201	9	58	00000111	15	54	10030201	7
20	02041101	15	71	030903	15	55	000205	15
27	000302	15	72	1030003	8	64	6000701	14
28	501020001	9	74	10000111	11	65	10002011	7
29	102001001	6	82	04041101	16	68	110310001	7

TABLE II

13269	030101001	14	13444	021101001	7	13616	2000103	8
78	080105	15	46	04000002	15	19	0001022	6
80	7000701	15	56	5000402	11	21	03100002	16
81	20002011	6	57	1010212	8	32	3000103	8
82	001101001	5	59	01100002	16	34	00200002	12
84	02000002	16	72	6000402	12	43	05030201	15
97	30002011	7	73	001120001	6	48	4000103	9
98	101101001	6	75	11100002	10	50	10200002	5
13300	12000002	16	81	03030201	15	51	000201001	12
12	0040003	8	88	7000402	13	60	050205	15
14	00100111	8	89	101120001	7	64	5000103	9
19	01030201	15	91	21100002	8	65	0100103	6
28	1040003	9	94	00130201	10	67	100201001	10
30	10100111	7	98	030205	15	73	021205	14
33	020310001	8	13504	8000402	14	78	040604	15
35	11030201	8	05	00102011	7	80	6000103	10
36	010205	15	08	011310001	8	81	1100103	7
44	2040003	10	10	10130201	8	83	00010111	9
46	20100111	8	11	001205	12	89	07000002	15
49	120310001	8	16	020604	15	96	7000103	11
50	040101001	10	20	9000402	15	97	000011001	5
54	000604	15	21	10102011	8	13700	0000041	16
60	003020001	7	24	111310001	8	12	8000103	12
62	30100111	7	25	031101001	8	13	100011001	5
63	011101001	6	27	05000002	16	15	01200002	13
65	03000002	15	37	20102011	7	24	06030201	15
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93	10400021	8	23	2002000001	8	97	30001021	7
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TABLE II

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45	11010102	6	91	03010102	15	46	1120100001	7
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72	6000303	12	21	00100401	10	77	100000011	8
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88	7000303	13	36	0310100001	11	96	000400101	6
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10	02010102	15	70	021202001	8	27	1220100001	7
20	9000303	15	71	0412000001	8	28	00030021	10
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68	500020101	9	14	111000011	6	57	302001101	8
69	101001101	6	16	11001102	7	58	1000010001	12
71	10001211	6	18	00041002	9	68	020406	15
72	0013000001	5	21	0503000001	15	72	1000001	12
73	00020102	15	28	2020004	9	73	002000011	4
84	600020101	10	30	211000011	7	74	2000010001	9
85	201001101	6	32	21001102	7	80	02041002	11
86	0130100001	7	33	001302001	7	83	0703000001	15
88	1013000001	6	34	0213000001	7	88	2000001	13
89	10020102	6	35	02020102	15	89	102000011	5
90	00010401	15	44	001020101	6	90	3000010001	9
16800	700020101	11	46	00003111	8	95	021302001	9
01	301001101	7	49	101302001	8	96	0413000001	9
02	1130100001	8	50	1213000001	8	97	04020102	15
04	030000011	7	51	12020102	8	17104	3000001	14
07	000007	15	52	02010401	15	05	202000011	6

TABLE II

17106	4000010001	8	17281	3000200001	7	17442	001100011	5
09	0123000001	7	83	110100011	5	44	00011102	7
10	01120102	10	84	010003001	5	47	0500010001	15
14	04010401	15	85	0300010001	15	56	003020101	8
20	4000001	15	96	2000702	11	58	101100011	5
21	302000011	7	97	4000200001	7	59	001003001	5
22	000101101	4	98	0010010001	7	60	0210010001	9
23	0100010001	16	17303	0204000001	15	65	0404000001	15
37	00005011	7	12	3000702	12	72	0000403	8
38	100101101	5	13	000120101	5	74	00100012	7
39	1100010001	5	14	1010010001	8	78	0114000001	7
41	0004000001	15	19	1204000001	14	79	01030102	15
52	0030004	8	26	0003000001	15	88	1000403	8
54	00000121	6	28	4000702	13	89	0010200001	8
57	1004000001	12	29	003000011	5	94	1114000001	8
64	0803000001	15	30	2010010001	8	95	11030102	8
68	1030004	9	34	00030211	12	96	01020401	15
70	10000121	7	40	07020102	15	17504	2000403	9
73	2004000001	10	44	5000702	14	05	1010200001	8
77	0513000001	10	45	00002021	7	09	00140021	8
78	05020102	15	48	020100011	13	10	040100011	9
84	2030004	10	57	07010401	15	13	010107	15
86	000100011	11	60	6000702	15	20	3000403	10
95	05010401	15	61	10002021	8	21	2010200001	7
17200	002020101	7	64	120100011	6	23	011100011	6
02	100100011	4	65	020003001	6	25	01011102	8
03	000003001	4	66	0400010001	16	28	0600010001	15
04	0200010001	15	77	20002021	7	36	4000403	11
16	102020101	7	78	001101101	5	37	3010200001	8
17	0050100001	7	79	0110010001	8	39	111100011	6
18	00000012	6	84	0304000001	16	40	011003001	6
22	0104000001	15	93	30002021	8	41	0310010001	10
32	202020101	8	94	000022001	5	46	0504000001	15
33	0000200001	7	95	1110010001	6	52	5000403	12
38	1104000001	13	97	0014000001	6	53	4010200001	8
45	0903000001	15	98	00030102	15	54	0020010001	8
48	302020101	9	17408	0040004	9	59	0214000001	8
49	1000200001	7	10	00100121	7	60	02030102	15
53	00040021	11	13	1014000001	7	68	6000403	13
58	0613000001	11	14	10030102	7	69	001120101	6
59	06020102	15	15	00020401	15	70	1020010001	9
64	0000702	9	24	1040004	10	75	1214000001	9
65	2000200001	6	26	10100121	8	76	12030102	9
67	010100011	12	29	030100011	8	77	02020401	15
76	06010401	15	32	000107	15	84	7000403	14
80	1000702	10	40	2040004	11	85	004000011	6

17586	2020010001	8	17739	04020401	15	17889	200010011	6
89	00032002	8	44	4000104	9	91	0130010001	6
91	050100011	10	45	0020200001	6	92	010200011	13
94	020107	15	47	000201101	5	17901	06020401	15
17600	8000403	15	48	0101010001	15	04	800060001	15
01	00102021	8	60	5000104	10	05	300010011	7
04	021100011	7	61	1020200001	7	07	1130010001	7
06	02011102	9	63	100201101	6	08	110200011	6
09	0700010001	16	64	1101010001	6	09	010103001	6
17	10102021	9	66	0005000001	15	10	0301010001	15
20	121100011	7	76	000060001	7	20	0060004	10
21	021003001	7	77	2020200001	8	21	400010011	7
22	0410010001	11	79	00010121	7	22	00300121	7
27	0604000001	16	82	1005000001	13	23	0011010001	4
33	20102021	8	89	0804000001	15	24	00000202	15
34	002101101	6	92	100060001	8	36	0010104	7
35	0120010001	9	93	000011101	6	38	010010011	5
40	0314000001	9	96	0000042	11	40	10000202	15
41	03030102	16	17802	0514000001	11	51	0004000001	15
49	30102021	9	03	05030102	15	52	1010104	8
50	001022001	6	08	200060001	9	54	110010011	6
51	1120010001	7	09	100011101	5	56	20000202	8
53	0024000001	7	10	0030010001	5	59	00040211	13
54	00130102	10	11	000200011	12	66	07030102	15
58	03020401	15	20	05020401	15	68	2010104	9
64	0050004	10	24	300060001	10	70	210010011	7
66	00200121	6	25	200011101	6	72	0230010001	7
67	0001010001	15	26	1030010001	6	73	020200011	14
80	0000104	7	27	100200011	5	82	07020401	15
83	1001010001	10	28	000103001	5	84	000030101	6
90	0800010001	15	29	0201010001	15	86	00300012	8
96	1000104	7	40	400060001	11	89	120200011	7
98	002100011	5	41	005000011	7	90	020103001	7
99	2001010001	8	42	2030010001	7	91	0401010001	15
17703	0510010001	12	43	00010012	7	18000	100030101	6
08	0704000001	15	47	0105000001	15	01	0030200001	7
12	2000104	8	56	500060001	12	03	001201101	6
14	102100011	6	57	000010011	5	04	0111010001	5
15	3001010001	6	60	00000311	14	05	01000202	15
16	0220010001	10	70	0904000001	15	16	200030101	7
21	0414000001	10	72	600060001	13	17	1030200001	8
22	04030102	15	73	100010011	6	19	020010011	6
28	3000104	9	76	10000311	12	21	11000202	7
30	00200012	8	83	0614000001	12	23	00040102	15
34	0124000001	8	84	06030102	15	32	300030101	8
35	01130102	11	88	700060001	14	33	2030200001	9

18035	120010011	7	18164	111200011	7	18308	1002010001	11
37	21000202	8	65	011103001	7	15	0801010001	15
39	10040102	8	66	0311010001	7	20	800000201	11
40	00030401	15	67	03000202	15	21	310000201	7
48	400030101	9	76	0070004	11	22	0050010001	7
49	001011101	6	77	401010011	8	23	002200011	6
51	00002211	8	78	00400121	8	24	2002010001	9
54	030200011	9	79	0021010001	5	28	0511010001	9
57	000207	15	80	00100202	9	29	05000202	15
64	500030101	10	85	02040102	15	36	900000201	12
65	101011101	6	92	000000201	6	37	410000201	8
66	0040010001	6	96	10100202	10	38	0000110001	11
67	001200011	6	18201	12040102	10	47	04040102	15
69	00021102	8	02	02030401	15	52	0000101	12
72	0501010001	15	08	100000201	7	53	007000011	9
80	600030101	11	12	20100202	8	54	1000110001	9
81	201011101	7	14	00042002	9	60	01140102	12
82	1040010001	7	16	050200011	11	64	04030401	15
83	101200011	6	19	020207	15	68	1000101	13
84	001103001	6	24	200000201	8	69	002010011	5
85	0211010001	6	28	0240010001	8	70	2000110001	6
86	02000202	15	29	021200011	8	72	000301101	6
96	700030101	12	31	02021102	10	73	0102010001	15
97	006000011	8	34	0701010001	15	84	2000101	14
98	2040010001	8	40	300000201	7	85	102010011	6
99	00110012	7	42	00400012	9	86	3000110001	7
18102	12000202	8	45	121200011	8	88	100301101	7
04	01040102	15	46	021103001	8	89	1102010001	7
12	800030101	13	47	0411010001	8	91	0006000001	15
13	001010011	5	48	04000202	15	18400	3000101	15
15	00002102	9	56	400000201	7	01	202010011	7
20	11040102	9	57	0040200001	8	02	4000110001	8
21	01030401	15	59	002201101	7	04	00020121	8
28	900030101	14	60	0121010001	6	07	1006000001	10
29	101010011	6	61	01100202	10	10	06000202	16
31	10002102	9	66	03040102	15	17	302010011	8
35	040200011	10	72	500000201	8	18	000111101	5
38	010207	15	73	010000201	7	19	0100110001	12
44	00004	14	77	11100202	8	28	05040102	15
45	201010011	7	79	00140102	11	32	0080004	12
47	0140010001	7	83	03030401	15	33	00006011	8
48	011200011	7	88	600000201	9	34	100111101	6
50	01021102	9	89	110000201	7	35	1100110001	5
53	0601010001	15	92	0002010001	15	36	000300011	13
60	10004	15	18304	700000201	10	45	05030401	15
61	301010011	8	05	210000201	6	48	001000201	5
63	1140010001	8	06	00004002	7	50	00001121	6

18452	100300011	6	18608	3000802	13	18737	0000001001	10
53	000203001	6	09	000130101	6	46	01040401	15
54	0202010001	15	10	1010110001	8	52	302000201	8
64	101000201	6	14	120300011	8	53	1000001001	9
66	10001121	7	15	020203001	8	60	040300011	11
68	00020012	8	16	0402010001	15	63	010307	15
72	0106000001	15	24	4000802	14	68	0000503	8
80	201000201	7	25	003010011	6	69	2000001001	7
82	000110011	6	26	2010110001	7	73	011300011	8
85	00010311	11	28	001301101	7	75	01031102	10
91	07000202	15	29	0112010001	6	78	0602010001	15
96	301000201	8	30	01010202	15	84	1000503	9
98	100110011	5	40	5000802	15	85	3000001001	8
99	000013001	5	41	00003021	8	89	111300011	8
18500	0200110001	13	44	020110011	7	90	011203001	8
09	06040102	15	46	11010202	7	91	0312010001	8
12	401000201	8	47	01000501	16	92	03010202	15
13	0050200001	8	57	10003021	9	18800	2000503	10
14	00001012	6	60	120110011	7	01	4000001001	8
17	010300011	14	61	020013001	7	04	0022010001	6
26	06030401	15	62	0400110001	9	05	00110202	9
28	501000201	9	65	00040401	16	09	03000501	15
29	0000300001	7	73	20003021	8	13	3000503	11
33	110300011	7	74	001111101	6	17	000100201	4
34	010203001	7	75	0110110001	8	18	0100001001	11
35	0302010001	15	79	030300011	10	27	02040401	15
44	601000201	10	82	000307	15	32	4000503	12
45	1000300001	7	88	0090004	13	33	100100201	5
48	0012010001	5	89	30003021	9	34	1100001001	10
49	00010202	15	90	000032001	6	41	050300011	12
60	0000802	10	91	1110110001	6	44	020307	15
61	2000300001	7	92	001300011	7	46	5000503	13
63	010110011	6	94	00031102	9	49	00000031	8
65	10010202	6	97	0502010001	15	54	021300011	9
66	00000501	15	18704	002000201	6	56	02031102	11
76	1000802	11	06	00101121	7	59	0702010001	15
77	3000300001	8	08	101300011	7	64	6000503	14
79	110110011	6	09	001203001	7	65	10000031	9
80	010013001	6	10	0212010001	7	70	121300011	9
81	0300110001	14	11	02010202	15	71	021203001	9
90	07040102	15	20	102000201	7	72	0412010001	9
92	2000802	12	22	10101121	8	73	04010202	15
93	4000300001	8	24	00120012	8	80	7000503	15
94	0010110001	7	27	12010202	8	81	20000031	8
98	020300011	15	28	02000501	15	84	002301101	8
18607	07030401	15	36	202000201	7	85	0122010001	7

TABLE II

18886	01110202	10	19061	0400001001	14	19205	030001011	8
90	04000501	16	70	05040401	15	08	000008	15
97	30000031	7	72	000070001	8	16	004000201	8
98	000002101	4	73	001100201	5	18	001001011	5
99	0200001001	12	74	0110001001	7	20	00001202	16
18908	03040401	16	78	000303001	7	32	0010204	8
13	40000031	8	79	0203010001	15	34	101001011	6
14	100002101	5	88	100070001	9	36	0310001001	9
15	1200001001	6	89	000021101	5	40	020303001	9
17	0003010001	16	90	1110001001	7	41	0403010001	15
29	50000031	9	93	00030012	9	48	1010204	8
30	01000031	7	97	0107000001	15	49	0020001001	8
33	1003010001	12	19104	200070001	10	54	0113010001	7
40	0802010001	15	05	00100031	6	55	01020202	15
44	0000004	14	07	000210011	7	64	2010204	9
45	60000031	10	10	00020311	12	65	1020001001	8
46	11000031	7	16	07010202	15	69	020210011	8
48	002300011	7	20	300070001	11	71	11020202	8
49	2003010001	10	21	10100031	7	72	01010501	15
53	0512010001	10	23	100210011	6	80	000040101	6
54	05010202	15	24	020001011	13	81	2020001001	9
60	003000201	7	33	07000501	15	85	120210011	8
62	000001011	11	36	400070001	12	86	040001011	9
71	05000501	15	37	20100031	8	89	010008	15
76	0000204	7	39	00011012	7	96	100040101	7
78	100001011	5	42	0500001001	15	97	3020001001	8
80	0300001001	13	51	06040401	15	99	011001011	6
89	04040401	15	52	500070001	13	19301	01001202	11
92	1000204	7	53	000020011	5	07	000407	15
93	0010001001	7	55	0210001001	8	12	200040101	8
98	0103010001	15	59	010303001	8	13	4020001001	9
19008	2000204	8	60	0303010001	15	15	111001011	7
09	1010001001	8	68	600070001	14	17	0410001001	8
14	1103010001	8	69	100020011	6	19	00041102	10
16	0007000001	15	71	1210001001	7	22	0503010001	15
24	3000204	9	73	0013010001	6	28	300040101	9
25	2010001001	8	74	00020202	15	29	002100201	6
29	00030121	9	84	700070001	15	30	0120001001	8
32	1007000001	11	85	200020011	6	34	001303001	8
35	06010202	15	86	01100031	7	35	0213010001	8
40	4000204	10	88	010210011	7	36	02020202	15
41	3010001001	7	90	10020202	7	44	400040101	10
43	010001011	12	91	00010501	15	45	001021101	6
52	06000501	15	19200	0010004	15	46	1120001001	8
56	5000204	11	01	300020011	7	49	00130012	9
57	4010001001	8	02	11100031	8	52	12020202	9
59	110001011	6	04	110210011	7	53	02010501	15

19360	500040101	11	19505	0030001001	9	19650	1000210001	8
61	00200031	6	10	0123010001	8	54	00040121	10
62	0001001001	10	11	01120202	11	57	1008000001	12
70	020008	15	15	04010501	15	60	06020202	15
76	600040101	12	20	200010201	6	64	1000201	14
77	10200031	7	21	1030001001	7	65	002020011	6
78	1001001001	7	23	000102101	5	66	2000210001	7
82	02001202	12	24	0100020001	15	68	010101011	13
88	010407	15	36	300010201	7	77	06010501	15
92	700040101	13	37	2030001001	8	80	2000201	15
93	20200031	8	39	100102101	6	81	102020011	7
94	2001001001	8	40	1100020001	6	82	3000210001	7
98	0510001001	9	42	0004010001	15	83	00000003	16
19400	01041102	11	52	400010201	8	97	202020011	8
03	0603010001	15	53	3030001001	9	98	001200201	6
08	800040101	14	55	00000221	7	99	0010020001	8
09	001020011	6	58	1004010001	13	19704	0204010001	16
11	0220001001	9	65	0803010001	15	13	302020011	9
15	011303001	9	68	500010201	9	14	000121101	6
16	0313010001	9	69	010010201	6	15	1010020001	7
17	03020202	15	71	10000221	8	18	00040012	10
24	900040101	15	74	2004010001	11	22	0108000001	15
25	101020011	7	78	0513010001	11	28	006000201	9
27	1220001001	8	79	05020202	15	29	00007011	9
29	0023010001	7	84	600010201	10	30	003001011	6
30	00120202	10	85	110010201	6	31	2010020001	6
34	03010501	15	86	0130001001	6	32	000310011	8
40	00005	15	87	000101011	12	35	00030311	13
41	201020011	7	96	05010501	15	41	07020202	15
42	000200201	5	19600	700010201	11	44	001010201	6
43	0000020001	16	01	210010201	7	46	00002121	7
57	301020011	8	02	1130001001	7	48	100310011	7
58	100200201	6	03	100101011	5	49	020101011	14
59	1000020001	13	04	000004001	5	58	07010501	15
69	020407	15	05	0200020001	15	60	101010201	6
72	005000201	9	16	800010201	12	61	0040001001	8
74	002001011	5	17	00300031	7	64	01000003	15
75	2000020001	10	16	0011001001	4	76	201010201	7
81	02041102	12	19	00000112	7	77	1040001001	7
84	0703010001	15	23	0104010001	15	78	000120011	6
88	000010201	6	32	900010201	13	80	0110020001	9
91	3000020001	10	33	10300031	8	85	0304010001	15
96	021303001	10	34	0000210001	8	92	301010201	8
97	0413010001	10	39	1104010001	9	93	2040001001	8
98	04020202	15	41	0008000001	15	94	100120011	6
19504	100010201	5	48	0000201	13	95	000023001	6
			49	20300031	9			

TABLE II

19796	1110020001	7	19937	00004021	8	20113	210000002	5
98	0014010001	7	39	00100003	11	14	0100101001	11
99	00030202	15	47	0504010001	16	22	0414010001	11
19808	401010201	9	53	10004021	8	23	04030202	15
09	3040001001	9	54	002200201	7	28	800000002	10
10	00002012	7	55	0020020001	9	29	310000002	6
13	010310011	8	60	0214010001	9	30	1100101001	9
15	10030202	8	61	02030202	16	35	0124010001	9
16	00020501	15	69	20004021	9	36	01130202	12
24	501010201	10	70	001121101	7	40	04020501	15
25	0000400001	8	71	1020020001	8	44	900000002	11
29	110310011	8	74	00140012	10	45	00001031	7
30	030101011	9	77	12030202	10	48	000202101	6
33	000108	15	78	02020501	15	49	0101020001	15
40	601010201	11	84	007000201	10	60	000000002	12
41	1000400001	7	85	30004021	10	61	10001031	6
43	001101011	6	86	004001011	7	62	020000002	6
45	02000003	15	87	0002001001	11	65	1101020001	7
56	0000902	11	95	020108	15	67	0005010001	15
57	2000400001	8	20000	000000002	8	76	100000002	13
59	101101011	6	07	04000003	15	77	20001031	7
60	001004001	6	16	100000002	6	78	120000002	6
61	0210020001	10	20	01100003	12	80	00010221	7
66	0404010001	15	28	0604010001	15	82	03100003	14
72	1000902	12	32	200000002	4	90	0804010001	15
73	3000400001	8	33	0000101001	10	92	200000002	14
74	0021001001	5	41	0314010001	10	93	30001031	8
75	00100112	8	42	03030202	15	94	000012101	5
79	0114010001	8	48	300000002	5	95	0200101001	12
80	01030202	15	49	1000101001	8	20203	0514010001	12
88	2000902	13	54	0024010001	8	04	05030202	15
89	4000400001	9	55	00130202	11	08	300000002	15
90	0010210001	8	59	03020501	15	09	40001031	9
94	020310011	9	64	400000002	6	10	100012101	6
96	11030202	9	65	2000101001	6	11	1200101001	6
97	01020501	15	67	000300201	6	12	000201011	13
19904	3000902	14	68	0001020001	15	21	05020501	16
05	000140101	7	80	500000002	7	25	50001031	10
06	1010210001	9	81	010000002	5	26	01001031	7
10	120310011	9	84	1001020001	8	28	100201011	6
11	040101011	10	88	05000003	15	29	000104001	6
14	010108	15	96	600000002	8	30	0201020001	15
20	4000902	15	97	110000002	6	40	008000201	11
21	003020011	7	20100	2001020001	6	41	60001031	11
22	2010210001	8	01	02100003	13	42	11001031	7
24	011101011	7	09	0704010001	15	43	0012001001	5
26	03000003	16	12	700000002	9	44	00010112	8

20248	0105010001	15	20416	300080001	12	20560	302000002	7
56	001000002	4	17	10101031	7	61	1020101001	8
58	000011011	6	18	021000002	6	64	00110003	8
61	00000411	10	20	020011011	7	68	03000302	15
66	0009000001	15	22	11000302	8	76	000050101	7
72	101000002	5	24	00040202	15	77	2020101001	8
74	100011011	6	32	400080001	13	79	002300201	8
76	0300101001	11	33	20101031	8	80	0021020001	6
82	1009000001	13	34	121000002	6	81	00100302	10
85	06030202	15	35	00012012	8	86	02040202	15
88	201000002	5	38	0500101001	9	92	100050101	8
89	0010101901	7	40	10040202	9	93	000001201	7
93	010201011	14	41	00030501	15	97	10100302	11
20302	06020501	15	48	500080001	14	20602	12040202	11
04	301000002	6	49	000030011	6	03	02030501	15
05	1010101001	7	51	0210101001	9	08	200050101	9
08	00010003	15	55	030201011	10	09	100001201	7
20	401000002	7	58	000208	15	12	0003001001	12
21	2010101001	7	64	600080001	15	20	020208	15
23	001300201	7	65	100030011	7	24	300050101	10
24	0011020001	5	67	1210101001	7	25	000100002	9
25	00000302	15	68	001201011	7	32	04010003	15
36	501000002	8	70	02010003	15	40	400050101	11
37	011000002	5	80	0000005	8	41	100100002	7
39	010011011	6	84	101201011	7	45	01110003	9
41	10000302	11	85	001104001	7	49	04000302	15
47	0109000001	15	86	0211020001	7	56	500050101	12
52	601000002	9	87	02000302	15	57	000000111	7
53	111000002	6	96	1000005	8	62	01100302	11
55	110011011	7	99	0022001001	6	67	03040202	15
57	0400101001	9	20500	00110112	8	72	600050101	13
60	00040311	14	03	12000302	9	73	100000111	8
66	07030202	15	05	01040202	15	78	11100302	9
68	000080001	9	12	002000002	5	80	00140202	12
69	211000002	6	14	001011011	6	84	03030501	15
70	0110101001	8	16	00002202	10	88	700050101	14
74	020201011	15	21	11040202	10	89	200000111	7
83	07020501	15	22	01030501	15	92	000400201	7
84	100080001	10	28	102000002	6	93	0002020001	15
85	000031101	6	30	101011011	7	20704	800050101	15
86	1110101001	8	32	0310101001	10	05	300000111	6
89	01010003	15	36	040201011	11	06	010100002	6
20400	200080001	11	39	010208	15	09	1002020001	9
01	00101031	7	44	202000002	6	13	05010003	16
03	000220011	7	45	0020101001	8	21	400000111	7
05	0111020001	6	49	011201011	8	22	110100002	7
06	01000302	15	51	03010003	15	25	2002020001	7

TABLE II

20726	02110003	10	20913	001000111	4	21093	001301011	8
30	05000302	15	14	12000000001	7	95	02020003	15
36	00000000001	12	18	010301011	15	21104	70100000001	9
48	04040202	15	27	06030501	15	05	21100000001	8
52	10000000001	10	28	20000000001	13	09	101301011	8
61	01140202	13	29	101000111	5	10	001204001	8
65	04030501	15	30	22000000001	7	11	0212020001	8
68	20000000001	7	33	00020003	15	12	02010302	15
73	000302101	7	44	30000000001	14	20	80100000001	10
74	0102020001	15	45	201000111	6	21	31100000001	8
84	30000000001	6	46	32000000001	8	24	0023001001	7
87	020100002	7	49	0012020001	6	25	00120112	9
90	1102020001	8	50	00010302	15	28	12010302	9
92	0006010001	15	60	40000000001	15	29	02000601	15
20800	40000000001	7	61	301000111	7	36	90100000001	11
03	120100002	7	62	011100002	6	37	002100002	5
05	00020221	8	64	010111011	7	38	0000011001	11
07	03110003	11	66	10010302	7	47	01040501	15
11	06000302	15	67	00000601	16	52	00100000001	12
16	50000000001	6	77	401000111	8	53	102100002	6
17	01000000001	13	78	111100002	6	54	02100000001	10
29	0506010002	15	79	03000000001	15	61	040301011	12
32	60000000001	7	91	C7040202	15	64	010308	15
33	11000000001	6	92	00100000001	8	68	10100000001	13
37	000301011	14	99	020301011	16	69	002000111	5
46	05030501	15	21008	10100000001	8	70	12100000001	8
48	70000000001	8	14	01020003	15	74	011301011	9
49	21000000001	7	24	20100000001	7	76	03020003	15
53	100301011	7	28	000320011	8	84	20100000001	14
54	000204001	7	30	0112020001	7	85	102000111	6
55	0202020001	15	31	01010302	15	86	22100000001	8
64	80000000001	9	40	30100000001	7	89	00120003	9
65	31000000001	7	43	021100002	7	93	03010302	15
68	0013001001	6	45	020111011	8	21200	30100000001	15
69	00020112	9	47	11010302	8	01	202000111	7
73	0106010001	15	48	01000601	15	02	0000000101	16
80	90000000001	10	56	40100000001	8	17	302000111	8
81	001100002	5	59	121100002	7	18	1000000101	12
83	000111011	7	60	04000000001	10	28	02040501	16
86	00010411	11	66	00040501	15	33	00005021	8
91	0000000001	15	72	50100000001	7	34	2000000101	6
96	00000000001	11	73	01100000001	9	37	0004001001	13
97	101100002	5	80	030301011	11	45	020308	15
98	02000000001	14	83	000308	15	48	00200000001	4
20910	06040202	15	88	60100000001	8	50	000200002	10
12	10000000001	12	89	11100000001	7	57	04020003	15

21264	10200000001	5	21432	03120C03	12	21592	00010601	15
66	100200002	8	36	06010302	15	21600	301010002	7
70	01120003	10	40	900010002	12	01	11300000001	7
74	04010302	15	41	00002031	6	03	111200002	7
80	20200000001	6	42	01010000001	5	04	03010000001	7
82	000100111	4	45	0300000101	15	07	0500000101	15
83	0100000101	15	56	000010002	13	16	401010002	8
96	000010002	5	57	10002031	7	17	00110000001	5
99	1100000101	13	58	0010000101	15	20	0210000101	16
21309	03040501	15	71	05040501	15	32	501010002	9
12	100010002	5	72	100010002	14	33	10110000001	6
14	00000022	7	73	20002031	8	36	1210000101	8
18	0003020001	15	74	1010000101	8	39	01030003	15
28	200010002	5	79	000304001	8	48	601010002	10
29	01200000001	5	80	0203020001	15	49	20110000001	5
31	010200002	7	88	200010002	15	50	0020011001	9
34	1003020001	10	89	30002031	9	55	0113020001	8
38	05020003	15	90	2010000101	7	56	01020302	15
44	300010002	6	93	0014001001	7	64	000090001	10
45	11200000001	6	94	00030112	10	65	30110000001	6
47	110200002	8	98	0107010001	15	66	02300000001	7
50	2003020001	8	21504	0C300000001	5	68	021200002	8
51	02120003	11	06	001200002	6	70	020211011	9
55	05010302	15	08	000211011	8	72	11020302	9
60	400010002	7	11	00020411	12	73	01010601	15
61	00010000001	4	16	0001000001	15	80	100090001	11
64	0200000101	15	20	10300000001	6	81	40110000001	7
76	500010002	8	22	101200002	6	82	12300000001	8
77	10010000001	5	23	02010000001	6	84	121200002	8
80	1200000101	14	26	0400000101	15	85	04010000001	8
90	04040501	15	36	20300000001	7	88	0600000101	15
92	600010002	9	38	001100111	5	96	200090001	12
93	20010000001	4	39	0110000101	16	97	00102031	7
94	0010011001	8	52	001010002	5	98	01110000001	6
99	0103020001	15	54	000021011	5	21701	0310000101	12
21408	700010002	10	55	1110000101	7	08	000408	15
09	30010000001	5	58	00030003	15	12	300090001	13
10	02200000001	6	68	101010002	6	13	10102031	8
12	020200002	8	70	00100022	8	14	0020000101	9
15	1103020001	9	74	0013020001	7	20	02030003	15
17	0007010001	15	75	00020302	15	28	400090001	14
24	800010002	11	84	201010002	6	29	20102031	9
25	40010000001	6	85	01300000001	6	30	1020000101	9
26	12200000001	7	87	011200002	7	35	001304001	9
28	120200002	8	89	010211011	8	36	0213020001	9
30	00030221	9	91	10020302	8	37	02020302	15

TABLE II

21744	500090001	15	21905	20210000001	6	22080	30001000001	7
45	000040011	6	06	0030011001	6	33	0011000101	4
46	2020000101	8	07	000200111	5	84	00000103	15
49	0024001001	8	08	0101000101	15	96	40001000001	8
50	00130112	10	20	300060101	11	99	1011000101	5
53	12020302	10	21	000110002	6	22100	0010030001	9
54	02010601	15	24	1101000101	5	05	0204020001	15
60	00400000001	6	25	0100030001	15	12	50001000001	7
62	002200002	6	36	400060101	12	13	01001000001	8
63	0001011001	9	37	100110002	6	19	00040112	11
69	0700000101	15	39	00010022	6	23	0108010001	15
76	10400000001	7	41	1100030001	7	28	60001000001	8
78	102200002	7	43	0004020001	15	29	11001000001	7
79	02110000001	7	52	500060101	13	33	000311011	9
82	0410000101	13	53	000010111	6	36	00030411	13
89	010408	15	56	010300002	8	41	0002000001	15
92	20400000001	8	59	1004020001	11	44	70001000001	9
94	002100111	6	63	05030003	15	45	21001000001	7
95	0120000101	10	68	600060101	14	48	02020000001	7
21801	03030003	15	69	100010111	5	51	0401000101	15
08	002010002	6	70	0030000101	9	60	80001000001	10
10	001021011	6	75	2004020001	9	61	31001000001	7
11	1120000101	8	76	02130003	12	63	001200111	6
14	00130003	10	80	05020302	15	64	0111000101	5
18	03020302	15	84	700060101	15	65	01000103	15
24	102010002	7	85	200010111	6	76	90001000001	11
26	00200022	6	86	00020000001	5	77	001110002	6
27	0001000101	15	89	0201000101	16	79	000121011	6
40	202010002	7	22001	300010111	7	80	1111000101	6
41	01400000001	7	02	10020000001	6	81	0110030001	7
43	1001000101	4	05	1201000101	6	83	00040003	15
44	0000030001	15	06	0200030001	15	92	00001000001	12
56	302010002	8	16	00500000001	7	93	101110002	6
57	11400000001	8	18	20020000001	5	94	02001000001	8
59	2001000101	5	19	0011011001	5	99	0014020001	8
60	1000030001	14	20	00000212	8	22200	00030302	15
70	020408	15	24	0104020001	15	08	10001000001	13
72	000060101	8	32	00001000001	9	09	001010111	5
73	00210000001	5	40	1104020001	10	10	12001000001	8
75	000300002	11	42	0008010001	15	14	010311011	9
82	04030003	15	48	10001000001	9	16	10030302	9
88	100060101	9	55	00040221	10	17	00020601	15
89	10210000001	6	57	03130003	13	24	20001000001	14
91	100300002	9	61	06020302	15	25	101010111	6
95	01130003	11	64	20001000001	6	26	22001000001	8
99	04020302	15	67	01020000001	6	29	03020000001	8
21904	200060101	10	70	0301000101	15	32	0501000101	15

22240	30001000001	15	22416	80101000001	11	22592	000020002	6
41	201010111	7	17	100001002	6	95	1100100101	10
42	00120000001	6	20	0121000101	6	22601	02140003	13
45	0211000101	6	21	01100103	10	05	05030302	15
46	02000103	16	26	03040003	15	08	100020002	6
57	301010111	8	32	90101000001	12	10	00001022	5
58	10120000001	7	33	200001002	5	11	00030000001	6
61	1211000101	7	34	0000111001	8	14	0202000101	15
62	0210030001	8	39	00140003	11	24	200020002	6
64	01040003	15	43	03030302	15	25	01201000001	6
72	00600000001	8	48	00101000001	13	27	10030000001	7
74	20120000001	6	49	300001002	6	30	1202000101	7
75	03001000001	9	50	02101000001	6	31	0201030001	15
80	0114020001	9	52	0002000101	15	40	300020002	7
81	01030302	15	64	10101000001	14	41	11201000001	7
88	00101000001	9	65	002010111	6	43	20030000001	6
95	020311011	10	66	12101000001	7	44	0012011001	6
97	11030302	10	68	1002000101	5	45	00010212	9
98	01020601	15	69	0001030001	15	49	0105020001	15
22304	10101000001	9	80	20101000001	15	56	400020002	8
10	04020000001	9	81	102010111	7	57	00011000001	5
13	0601000101	15	82	010001002	6	60	0200100101	11
20	20101000001	7	85	1001030001	9	67	0009010001	15
23	01120000001	7	89	05000103	16	72	500020002	9
26	0311000101	7	97	202010111	8	73	10011000001	6
27	03000103	15	98	0000100101	11	76	1200100101	11
36	30101000001	8	22507	04040003	16	82	03140003	14
39	0021000101	5	13	302010111	9	86	06030302	15
40	00100103	9	14	1000100101	9	88	600020002	10
45	02040003	15	20	01140003	12	89	20011000001	5
52	40101000001	9	24	04030302	15	90	0010111001	6
55	1021000101	6	28	00700000001	9	92	01030000001	7
56	04001000001	10	30	2000100101	6	95	0302000101	15
61	0214020001	10	32	000300111	6	22704	700020002	11
62	02030302	15	33	0102000101	15	05	30011000001	6
68	50101000001	8	44	00201000001	5	06	02201000001	7
69	01101000001	9	46	000210002	7	08	0012000101	5
75	00140112	11	49	1102000101	6	09	00010103	15
78	12030302	11	50	0101030001	15	20	800020002	12
79	02020601	15	60	10201000001	6	21	40011000001	7
84	60101000001	9	62	100210002	6	22	12201000001	8
85	11101000001	7	63	020001002	7	24	1012000101	6
88	0002011001	10	66	1101030001	8	25	0011030001	6
94	0701000101	15	68	0005020001	15	26	00000402	15
22400	70101000001	10	76	20201000001	7	36	900020002	13
01	000001002	8	78	000110111	5	37	00003031	7
07	0411000101	8	79	0100100101	12	38	01011000001	6
08	04000103	15	88	05040003	15	41	0300100101	12

TABLE II

22748	0109010001	15	22896	301020002	8	23032	0412000101	9
52	000020002	14	97	11301000001	8	33	04010103	15
53	10003031	8	99	20130000001	7	40	00900000001	10
54	0010100101	10	22900	03011000001	8	41	000050011	7
61	00040411	14	03	0500100101	10	42	100101002	7
66	0003000001	15	06	01040302	15	45	0122000101	7
68	100020002	15	12	401020002	9	46	01110103	10
69	20003031	9	13	00111000001	4	50	04000402	15
70	1010100101	7	14	010002001	11	56	00401000001	7
73	02030000001	8	22	11040302	11	58	000001111	8
76	0402000101	15	23	01030601	15	63	01100402	12
84	00800000001	10	28	501020002	10	68	03040302	15
86	2010100101	7	29	10111000001	5	72	10401000001	8
88	001300111	7	30	1100002001	9	74	100001111	6
89	0112000101	6	35	04030000001	10	76	0300002001	6
90	01010103	15	38	0602000101	15	77	0003000101	15
22800	00301000001	6	44	601020002	11	88	20401000001	8
02	001210002	7	45	00000041	7	89	0010002001	7
04	000221011	7	48	01130000001	8	93	1003000101	6
05	1112000101	7	51	0312000101	8	94	0002030001	15
06	0111030001	7	52	03010103	15	23104	002020002	6
07	01000402	15	60	000000001	11	05	1010002001	6
16	10301000001	7	61	10000041	8	07	010101002	7
18	101210002	7	64	0022000101	6	10	1002030001	10
19	02011000001	7	65	00110103	9	14	05010103	15
22	0400100101	9	69	03000402	15	20	102020002	7
25	00040302	15	76	100000001	12	21	2010002001	6
32	20301000001	7	77	20000041	9	22	000000021	11
33	0000002001	10	80	1022000101	7	31	05000402	15
41	10040302	10	81	04011000001	7	36	202020002	8
42	00030601	15	82	00100402	11	37	00000100001	13
48	001020002	5	87	02040302	15	49	04040302	15
49	1000002001	8	92	200000001	13	52	302020002	9
54	03030000001	9	93	30000041	8	53	10000100001	7
57	0502000101	15	94	01111000001	5	58	0103000101	15
64	101020002	6	95	0200002001	12	68	000070101	9
65	2000002001	6	23003	12040302	12	69	20000100001	8
67	00130000001	7	04	02030601	15	74	1103000101	7
70	0212000101	7	08	300000001	14	75	0102030001	15
71	02010103	15	09	40000041	9	84	100070101	10
80	201020002	7	10	0020100101	7	85	30000100001	7
81	01301000001	7	13	0003011001	11	88	020101002	8
83	10130000001	8	19	0702000101	15	91	1102030001	9
86	1212000101	8	24	400000001	15	93	0006020001	15
87	0211030001	8	25	50000041	10	23200	200070101	11
88	02000402	15	26	000101002	9	01	40000100001	7

23203	010000021	12	23365	030000021	8	23513	02010402	15
12	06000402	15	68	00000701	15	20	20002000001	15
16	300070101	12	76	30002000001	7	21	101020111	7
17	000120002	5	78	001000021	5	22	31100100001	8
18	01000100001	14	80	03000100001	15	24	20140000001	8
30	05040302	15	91	0004000001	15	25	03021000001	8
32	400070101	13	92	40002000001	7	27	050000021	10
33	100120002	6	93	00100100001	7	30	02000701	16
34	11000100001	5	98	02040000001	9	37	201020111	8
36	00040000001	7	23401	0403000101	15	38	00121000001	5
39	0203000101	15	08	50002000001	8	39	0000021001	12
48	500070101	14	09	10100100001	8	48	01040601	15
49	000020111	5	14	0113000101	7	52	00100000001	12
50	21000100001	6	15	01020103	15	53	301020111	9
52	10040000001	8	24	60002000001	9	54	10121000001	6
55	1203000101	8	25	20100100001	8	55	02100100001	9
56	0202030001	15	29	000321011	8	60	04040000001	11
64	600070101	15	30	1113000101	8	63	0603000101	15
65	100020111	6	31	0112030001	8	68	00601000001	9
66	31000100001	7	32	01010402	15	70	002001111	6
68	20040000001	7	40	70002000001	10	71	12100100001	7
69	0013011001	7	41	30100100001	8	73	01140000001	9
70	00020212	10	44	02021000001	7	76	0313000101	9
74	0106020001	16	46	040000021	9	77	03020103	15
81	200020111	7	49	01000701	15	84	00102000001	8
82	00021000001	5	56	80002000001	11	89	0023000101	7
84	020000021	12	57	40100100001	7	90	00120103	10
92	0000010001	15	58	0001002001	6	94	03010402	15
96	00000000001	11	61	04000100001	11	23600	10102000001	7
97	300020111	8	67	00040601	15	03	0000010101	15
98	10021000001	5	72	90002000001	12	16	20102000001	8
99	02000100001	15	73	001120002	6	19	1000010101	13
23311	06040302	15	74	01100100001	8	29	02040601	15
12	00501000001	8	79	03040000001	10	32	30102000001	8
14	001001111	5	82	0503000101	15	34	002000021	5
15	12000100001	6	88	00002000001	13	35	2000010101	7
17	01040000001	8	89	101120002	7	38	0004011001	12
20	0303000101	15	90	11100100001	6	44	0703000101	15
28	00002000001	7	92	00140000001	8	48	40102000001	8
33	0013000101	6	95	0213000101	8	49	00200100001	5
34	00020103	15	96	02020103	15	51	000201002	10
44	10002000001	8	23504	10002000001	14	57	0413000101	10
49	1013000101	7	05	001020111	6	58	04020103	15
50	0012030001	7	06	21100100001	7	64	50102000001	9
51	00010402	15	08	10140000001	9	65	10200100001	6
60	20002000001	7	11	1213000101	9	67	100201002	8
63	01021000001	6	12	0212030001	9	70	0123000101	8

23671	01120103	11	23837	06010402	15	23986	01300100001	7
75	04010402	15	40	00202000001	6	88	01031000001	7
80	60102000001	10	42	000220002	6	90	030100021	9
81	20200100001	7	43	01010100001	6	93	00010701	15
83	000101111	5	46	0300010101	15	24000	700030002	12
84	0100010101	15	56	10202000001	7	01	30012000001	7
96	70102000001	11	58	100220002	7	02	11300100001	7
97	000011002	6	59	0010010101	8	03	001100021	6
23700	1100010101	6	64	0204000101	15	05	03010100001	8
02	0004000101	15	72	20202000001	8	08	0500010101	15
12	80102000001	12	74	000120111	6	16	800030002	13
13	100011002	5	75	1010010101	9	17	40012000001	8
14	0011002001	5	80	1204000101	9	18	00110100001	6
15	00000122	7	81	0203030001	15	21	0210010101	10
18	1004000101	7	88	000030002	6	26	0404000101	15
19	0003030001	15	90	003000021	6	32	900030002	14
28	90102000001	13	91	2010010101	8	33	00004031	8
29	200011002	6	94	0014011001	8	34	10110100001	5
30	01200100001	6	95	00030212	11	35	00100013	8
32	010201002	8	99	0107020001	15	39	0114000101	8
35	1003030001	11	23904	100030002	6	40	01030103	15
39	05020103	15	05	00300100001	6	48	000030002	15
44	00102000001	14	07	00031000001	6	49	10004031	9
45	300011002	7	09	020100021	13	50	0010200101	9
46	11200100001	6	17	0001010001	15	55	1114000101	9
47	000100021	12	20	200030002	7	56	0113030001	9
56	05010402	15	21	10300100001	7	57	01020402	15
60	10102000001	15	23	10031000001	6	64	00300000001	14
61	002020111	7	24	02010100001	7	65	20004031	10
62	00010100001	5	27	0400010101	15	66	1010200101	8
65	0200010101	16	36	300030002	8	69	02031000001	8
77	102020111	8	37	20300100001	8	71	040100021	10
78	10010100001	4	39	001101111	6	74	01010701	15
79	00000013	7	40	0110010101	9	80	00801000001	11
83	0104000101	16	45	0304000101	15	82	2010200101	7
93	202020111	9	52	400030002	9	83	0002002001	7
94	0000200101	8	53	00012000001	6	86	04010100001	9
99	1104000101	8	56	1110010101	7	89	0600010101	15
23800	0103030001	15	58	0014000101	7	96	000000102	5
08	00200000001	13	59	00030103	15	99	01110100001	7
09	302020111	10	68	500030002	10	24102	0310010101	11
10	1000200101	7	69	10012000001	6	07	0504000101	15
13	020201002	9	71	00100122	8	12	100000102	6
16	1103030001	10	74	1014000101	8	15	0020010101	9
18	0007020001	15	75	0013030001	8	20	0214000101	9
24	00701000001	10	76	00020402	15	21	02030103	15
26	2000200101	7	84	600030002	11	28	200000102	5
28	010100021	13	85	20012000001	6	29	0000102001	10

24136	1214000101	10	24276	009301002	11	24417	00500100001	7
37	0213030001	10	82	0414000101	11	18	000010021	6
38	02020402	15	83	04030103	15	21	00000312	9
44	300000102	6	88	200010001	14	25	0104030001	15
45	1000102001	9	89	30001041	9	32	501000102	9
50	03031000001	9	90	10210100001	6	33	00001100001	10
52	050100021	11	91	0200102001	9	41	1104030001	11
55	02010701	15	95	0124000101	9	43	0000020001	15
60	400000102	7	96	01130103	12	48	601000102	10
61	00400100001	7	24300	04020402	15	49	10001100001	7
63	00131000001	6	04	300010001	15	53	010200021	14
64	0001021001	10	05	40001041	10	62	06020402	15
70	0700010101	15	06	0020200101	7	64	000080101	10
76	500000102	8	08	000201111	6	65	20001100001	7
77	010000102	6	09	0101010101	15	68	01020100001	7
80	02110100001	8	20	00400000001	15	71	0301010101	15
83	0410010101	12	21	50001041	11	80	100080101	11
88	0604000101	15	22	000111002	7	81	30001100001	8
92	600000102	9	25	1101010101	6	84	0011010101	5
93	110000102	7	26	0100040001	15	85	00000203	15
96	0120010101	10	36	00901000001	11	98	200080101	12
24201	0314000101	10	37	000060011	8	97	40001100001	8
02	03030103	15	38	100111002	6	99	010010021	6
08	700000102	10	39	0012002001	6	24501	0010040001	10
09	00112000001	5	40	00010122	7	06	0204030001	15
10	0100102001	8	42	1100040001	8	12	300080101	13
14	0024000101	8	44	0004030001	15	13	000130002	6
15	00130103	11	52	001000102	5	14	01001100001	9
19	03020402	15	54	000011111	7	20	00040212	12
24	800000102	11	57	010301002	9	24	0108020001	15
25	10112000001	6	60	1004030001	12	28	400080101	14
26	1100102001	7	64	05030103	15	29	100130002	7
28	0001010101	15	68	101000102	6	30	11001100001	6
40	900000102	12	70	100011111	6	32	00041000001	7
41	00001041	8	71	0030010101	6	34	020200021	14
44	1001010101	5	72	000200021	13	42	0002010001	15
45	0000040001	15	81	05020402	15	44	500080101	15
56	000010001	12	84	201000102	6	45	000030111	6
57	10001041	7	85	0010102001	6	46	21001100001	7
58	020000102	6	87	00020100001	6	48	10041000001	7
60	2001010101	6	90	0201010101	15	49	02020100001	8
61	1000040001	13	24400	301000102	7	52	0401010101	16
69	0704000101	15	01	1010102001	7	61	100030111	7
72	100010001	13	03	10020100001	5	62	31001100001	8
73	20001041	8	04	00010013	7	64	001201111	7
74	00210100001	6	07	0200040001	15	65	0111010101	6
			16	401000102	8			

TABLE II

24566	01000203	15	24736	70003000001	11	24908	04040103	15
76	0000006	7	37	100100102	5	12	50000010001	7
78	00022000001	6	38	1100000011	6	13	01000010001	10
80	020010021	7	41	00100203	10	21	01140103	13
82	0110040001	8	46	02040103	15	25	04030402	15
84	00040103	15	52	80003000001	12	28	60000010001	8
92	1000006	8	53	000000211	7	29	11000010001	7
94	10022000001	6	57	04001100001	11	33	000301111	7
95	02001100001	9	62	0214030001	11	34	0102010101	15
24600	0014030001	9	63	02030402	15	44	70000010001	9
01	00030402	15	68	90003000001	13	45	21000010001	6
08	002000102	6	69	100000211	5	47	000211002	8
10	001011111	6	70	01101100001	9	50	1102010101	7
11	12001100001	7	75	03041000001	10	51	0101040001	15
13	01041000001	8	77	050200021	12	60	80000010001	10
15	030200021	10	80	02020701	15	61	31000010001	7
18	00020701	15	84	00003000001	14	63	100211002	7
24	00003000001	7	85	200000211	6	64	020002002	6
28	001200021	7	86	11101100001	7	65	01000010011	9
30	03020100001	9	88	00141000001	7	69	0005030001	15
33	0501010101	15	89	0002021001	11	76	90000010001	11
40	10003000001	5	95	0701010101	15	77	001100102	5
41	0000000011	7	24800	10003000001	15	78	0110000011	5
47	02000203	15	01	300000211	7	80	0100110101	13
56	20003000001	6	02	000002002	4	89	05040103	15
57	1000000011	8	03	0200000011	9	92	00000010001	12
63	0210040001	9	09	04000203	16	93	000021002	5
65	01040103	15	17	400000211	8	94	02000010001	6
72	30003000001	7	18	100002002	5	97	000300021	14
73	2000000011	6	19	1200000011	7	25006	05030402	15
76	03001100001	10	22	01100203	11	08	10000010001	13
81	0114030001	10	27	03040103	15	09	001000211	5
82	01030402	15	32	00000010001	9	10	12000010001	6
88	40003000001	8	40	00140103	12	12	00030100001	7
89	00101100001	8	44	03030402	15	15	0202010101	15
94	02041000001	9	48	10000010001	7	24	20000010001	14
96	040200021	11	53	0002010101	15	25	101000211	6
99	01020701	15	64	20000010001	8	26	22000010001	7
24704	50003000001	9	69	1002010101	6	28	10030100001	6
05	10101100001	7	70	0001040001	15	29	00020013	8
08	0003002001	8	80	30000010001	7	32	0201040001	15
11	04020100001	10	83	010002002	5	40	30000010001	15
14	0601010101	15	84	0300000011	10	41	201000211	7
20	60003000001	10	90	05000203	15	42	32000010001	7
21	000100102	4	96	40000010001	6	43	000110021	7
22	0100000011	8	97	0010000011	4	46	0500000011	10
28	03000203	15	99	0000110101	12	50	0105030001	16

25057	301000211	8	25220	02011100001	8	25376	20200010001	7
58	00011100001	6	23	0400110101	10	78	000100211	5
61	0200110101	12	26	00040402	15	79	0100001101	12
68	0009020001	16	32	300040002	9	88	02040402	15
73	401000211	9	33	002100102	6	92	000010102	6
74	10011100001	5	34	0000012001	9	95	1100001101	11
75	03000010001	7	40	030300021	11	25402	050300021	13
78	0302010101	15	43	00030701	15	05	02030701	15
87	06030402	15	48	400040002	10	08	100010102	5
88	00100010001	7	49	00013000001	5	09	0030000011	5
93	01030100001	8	50	02100010001	7	10	00000032	8
96	010300021	15	53	001300021	8	14	0003021001	12
25104	10100010001	8	55	03030100001	10	20	0702010101	15
09	0012010101	6	58	0502010101	15	24	200010102	6
10	00010203	15	64	500040002	11	25	01200010001	6
20	20100010001	8	65	10013000001	6	27	000102002	5
24	010110021	7	66	0001000011	8	28	0201000011	10
26	0011040001	7	72	02010203	15	34	04010203	15
27	00000502	15	80	600040002	12	40	300010102	7
36	30100010001	7	81	20013000001	7	41	11200010001	7
38	000230002	7	82	1001000011	9	43	100102002	6
39	01011100001	7	88	0211040001	9	44	1201000011	8
42	0300110101	13	89	02000502	15	47	01110203	11
49	0109020001	15	96	700040002	13	51	04000502	15
52	40100010001	7	97	30013000001	8	56	400010102	8
53	0020000011	5	98	0000001101	11	57	00010010001	5
55	0010110101	8	25307	01040402	15	60	0200001101	13
59	020300021	15	12	800040002	14	69	03040402	15
67	0003010001	15	13	40013000001	9	72	500010102	9
68	50100010001	8	14	1000001101	10	73	10010010001	6
69	01100010001	8	21	040300021	12	76	1200001101	7
74	02030100001	9	24	01030701	15	78	0003010101	15
77	0402010101	15	28	900040002	15	88	600010102	10
84	000040002	6	29	00005031	9	89	20010010001	5
85	11100010001	8	30	2000001101	7	90	0010012001	8
89	001301111	8	33	0004002001	9	94	1003010101	7
90	0112010101	7	36	04030100001	11	95	0002040001	15
91	01010203	15	39	0602010101	15	25504	700010102	11
25200	100040002	7	44	00200010001	5	05	30010010001	6
01	21100010001	7	46	000200102	5	06	02200010001	7
03	00032000001	7	47	0101000011	9	08	010102002	6
05	020110021	8	53	03010203	15	09	0301000011	11
07	0111040001	8	60	10200010001	6	15	05010203	15
08	01000502	15	62	100200102	6	20	800010102	12
16	200040002	8	63	1101000011	7	21	40010010001	7
17	31100010001	8	66	00110203	10	22	0011000011	4
19	10032000001	7	70	03000502	15	23	000001021	12

TABLE II

25532	05000502	15	25681	01300010001	7	25832	0112040001	9
36	900010102	13	83	00021100001	6	33	01010502	16
37	00002041	7	85	020001021	13	41	000040111	7
38	00000200001	14	93	0000020001	15	42	30100200001	8
50	04040402	15	96	301010102	8	44	10042000001	8
52	000020001	13	97	11300010001	8	45	02021100001	8
53	10002041	8	99	10021100001	6	47	040001021	10
54	10000200001	8	25700	02000200001	16	50	01000801	15
59	0103010101	15	12	401010102	9	56	00400010001	7
68	100020001	14	13	00110010001	6	58	002200102	7
69	20002041	9	16	12000200001	7	59	0001012001	7
70	20000200001	9	18	01040100001	9	62	04000200001	12
75	1103010101	8	21	0303010101	15	68	00040701	15
76	0102040001	15	28	501010102	10	72	10400010001	8
84	200020001	15	29	00002100001	8	74	00023000001	6
85	30002041	10	34	0013010101	7	75	01100200001	9
86	30000200001	8	35	00020203	15	80	03040100001	11
89	02010202	7	44	601010102	11	83	0503010101	15
90	0401000011	10	45	10002100001	8	88	20400010001	9
94	0006030001	15	49	010210021	8	90	10023000001	7
25600	00300010001	6	51	0012040001	8	91	0002000011	9
02	001200102	6	52	00010502	15	97	02020203	15
03	0111000011	5	60	000090101	11	25904	002010102	7
04	010001021	13	61	20002100001	8	06	001021111	7
13	06000502	15	64	01021100001	7	07	1002000011	10
16	10300010001	7	66	030001021	9	13	0212040001	10
18	000121002	6	69	00000801	15	14	02010502	15
19	01000200001	15	76	100090101	12	20	00004000001	7
31	05040402	15	77	30002100001	7	23	0001001101	11
32	20300010001	8	78	0021000011	5	31	02000801	15
34	001100211	6	79	001001021	6	36	10004000001	6
35	11000200001	6	81	03000200001	16	37	0000100011	5
37	00040100001	8	92	200090101	13	40	0000031001	13
40	0203010101	15	93	40002100001	8	49	01040701	15
48	001010102	6	94	00100200001	8	52	20004000001	7
50	000021111	6	99	02040100001	10	53	1000100011	6
51	21000200001	7	25802	0403010101	15	56	02100200001	10
53	10040100001	7	08	300090101	14	61	04040100001	12
54	00030013	9	09	000140002	7	64	0603010101	15
57	0202040001	15	10	10100200001	9	68	30004000001	8
64	101010102	6	15	0113010101	8	69	00210010001	6
65	0040000011	6	16	01020203	15	71	000300102	6
66	00100032	7	24	400090101	15	72	0102000011	10
68	000210021	8	25	100140002	8	78	03020203	15
71	0501000011	11	26	20100200001	7	84	40004000001	9
75	0106030001	15	28	00042000001	8	85	00102100001	7
80	201010102	7	30	020210021	9	88	1102000011	8

25991	00120203	11	26134	0302000011	12	26296	0502000011	12
95	03010502	15	40	05020203	15	26300	0107030001	15
26000	50004000001	10	44	10001010001	6	04	10001010001	14
01	10102100001	7	47	0012000011	5	05	001010211	6
03	000200211	6	48	000101021	13	06	12001010001	7
04	0000020101	15	57	05010502	15	08	00031100001	7
16	60004000001	11	60	20001010001	7	10	020101021	14
17	000110102	5	63	00010200001	6	18	0001020001	15
18	0100100011	5	66	0200020101	15	20	20001010001	15
20	1000020101	14	76	30001010001	8	21	101010211	7
30	02040701	15	79	10010200001	5	22	22001010001	8
32	70004000001	12	80	00000113	8	24	10031100001	7
33	100110102	6	84	0104010101	15	25	01000004	16
34	1100100011	6	92	40001010001	7	37	201010211	8
36	2000020101	8	93	0010100011	5	38	00120010001	7
39	0004021001	13	95	0000210101	9	41	0110020101	10
45	0703010101	15	26200	1104010101	9	46	0304010101	16
48	80004000001	13	01	0103040001	15	53	301010211	9
49	000010211	5	08	50001010001	8	54	00012100001	7
50	00200200001	6	09	01001010001	8	57	1110020101	8
52	000202002	6	14	020202002	8	59	0014010101	8
53	0202000011	11	15	0402000011	11	60	00030203	15
59	04020203	15	19	0007030001	15	68	00600010001	9
64	90004000001	14	24	60001010001	9	70	10012100001	6
65	100010211	6	25	11001010001	7	71	03001010001	8
66	10200200001	7	28	0112000011	6	74	010310021	9
68	100202002	7	29	010101021	14	76	0013040001	9
69	1202000011	9	38	06010502	15	77	00020502	15
72	01120203	12	40	70001010001	10	84	00101010001	8
76	04010502	15	41	21001010001	7	89	01031100001	8
80	00004000001	15	43	000221002	7	91	030101021	10
81	200010211	7	44	00000004	15	94	00010801	15
82	00020010001	6	56	80001010001	11	26400	10101010001	7
85	0100020101	16	57	31001010001	8	03	0022000011	6
97	300010211	8	59	001200211	7	04	001101021	7
98	10020010001	5	60	0010020101	9	06	02000004	15
99	0200100011	6	65	0204010101	15	16	20101010001	8
26101	1100020101	7	72	90001010001	12	19	00110200001	7
03	0004010101	15	73	001110102	6	22	0210020101	11
12	00500010001	8	74	0110100011	6	27	0404010101	15
14	20020010001	6	76	1010020101	8	32	30101010001	8
15	1200100011	6	79	00040013	10	34	000240002	8
16	00000222	8	82	0203040001	15	35	10110200001	6
19	1004010101	8	88	00001010001	13	36	00100113	9
20	0003040001	15	89	000031002	6	40	0114010101	9
28	00001010001	7	90	02001010001	7	41	01030203	15
33	010202002	7	93	000310021	9	48	40101010001	8

TABLE II

26449	0020100011	6	26609	300000012	6	26756	0200101101	8
51	0010210101	9	10	1000101101	7	59	0303000011	13
55	020310021	10	13	1103000011	9	65	05030203	15
57	0113040001	10	16	00130203	12	68	500020102	10
58	01020502	15	20	03020502	15	69	10011010001	7
64	50101010001	9	24	00700010001	9	72	0013000011	6
65	01101010001	9	25	400000012	7	73	000201021	14
70	02031100001	9	26	2000101101	7	82	05020502	15
72	040101021	11	28	000300211	7	84	600020102	11
75	01010801	15	29	0001020101	15	85	20011010001	6
80	000050002	7	40	00201010001	6	86	0010112001	7
81	11101010001	8	42	010000012	6	88	00020200001	7
84	0002012001	8	45	1001020101	6	91	0201020101	15
87	03000004	15	46	0000050001	15	26800	700020102	12
96	100050002	8	56	10201010001	7	01	30011010001	7
97	000001102	6	58	110000012	7	02	02201010001	8
26500	00100004	12	61	2001020101	7	04	10020200001	6
08	0504010101	15	62	1000050001	14	05	00010113	8
12	200050002	9	70	0704010101	15	08	0200050001	15
13	100001102	7	72	20201010001	8	16	800020102	13
16	0003000011	10	74	210000012	6	17	001000012	5
22	02030203	15	75	0100101101	7	19	000011021	7
28	300050002	10	78	0203000011	12	22	00000412	10
29	200001102	6	84	04030203	15	26	0104040001	15
30	0000112001	6	88	000020102	7	32	900020102	14
32	1003000011	11	91	1100101101	8	33	101000012	5
38	0213040001	11	94	1203000011	10	34	00001200001	9
39	02020502	15	97	01130203	13	40	0403000011	12
44	400050002	11	26701	04020502	15	44	0008030001	15
45	00014000001	6	04	100020102	6	48	000030001	14
46	02101010001	7	05	0030100011	6	49	201000012	6
48	0002001101	12	06	00001032	6	50	10001200001	7
56	02010801	15	07	00030010001	7	53	0113000011	7
60	500050002	12	10	0101020101	15	54	010201021	15
61	000000012	6	20	200020102	7	63	06020502	15
65	0001031001	8	21	01201010001	7	64	100030001	15
68	04000004	15	23	020000012	7	65	301000012	7
76	600050002	13	26	1101020101	7	66	20001200001	8
77	100000012	7	27	0100050001	15	69	00010004	15
81	01100004	13	36	300020102	8	80	00800010001	10
89	0604010101	15	37	11201010001	8	81	401000012	8
92	700050002	14	39	120000012	7	82	30001200001	8
93	200000012	5	41	00010222	8	84	001300211	8
94	0000101101	6	43	1100050001	9	85	0011020101	6
97	0103000011	11	45	0004040001	15	86	00000303	15
26603	03030203	15	52	400020102	9	96	00301010001	7
08	800050002	15	53	00011010001	6	98	011000012	6

26900	010011021	7	27042	0000010011	8	27190	0002031001	9
02	0010050001	11	48	02000303	15	93	04010004	15
07	0204040001	15	56	000000101	12	27200	002020102	7
12	10301010001	8	57	20003100001	7	01	1010003001	6
14	111000012	6	58	1000010011	9	02	100100012	5
15	01001200001	10	64	0210050001	10	03	000003002	5
21	0503000011	13	66	01040203	15	04	0200010011	10
25	0108030001	15	72	100000101	13	10	04000303	15
28	20301010001	8	73	002000012	5	16	00005000001	7
29	0000003001	7	74	2000010011	7	18	000000121	7
33	00041100001	8	77	03001200001	11	22	0104000011	12
35	020201021	15	82	0114040001	11	28	03040203	15
43	0002020001	15	83	01030502	15	32	10005000001	7
44	001020102	6	88	200000101	14	33	00000110001	10
45	1000003001	8	89	102000012	6	41	00140203	13
49	10041100001	8	90	00101200001	9	45	03030502	15
50	01010004	15	95	02041100001	10	48	20005000001	8
60	101020102	7	97	040201021	12	49	10000110001	8
61	2000003001	7	27100	01020801	15	54	0002020101	15
63	00130010001	8	04	300000101	15	64	30005000001	9
66	011020101	7	05	202000012	7	65	20000110001	6
67	01000303	15	06	10101200001	8	67	010100012	7
76	201020102	8	09	0003012001	9	70	1002020101	7
77	01301010001	8	12	03010004	16	71	0001050001	15
79	00022100001	7	21	302000012	8	80	40005000001	10
81	020011021	8	22	000101102	5	81	30000110001	7
83	0110050001	9	23	0100010011	9	83	110100012	6
85	00040203	15	29	03000303	15	84	010003002	6
92	301020102	9	36	00900010001	11	85	0300010011	11
93	11301010001	9	37	000050111	8	91	05000303	15
95	10022100001	7	38	100101102	6	96	50005000001	11
96	02001200001	10	39	1100010011	6	97	00000001001	13
27001	0014040001	10	41	0004000011	11	27309	04040203	15
02	00030502	15	47	02040203	15	12	60005000001	12
08	401020102	10	52	00401010001	8	13	10000001001	11
09	00111010001	5	54	000001211	7	22	01140203	14
10	0100003001	8	57	1004000011	12	26	04030502	15
14	01041100001	9	63	0214040001	12	28	70005000001	13
16	030201021	11	64	02030502	15	29	20000001001	6
19	00020801	15	68	10401010001	9	32	00040010001	8
24	501020102	11	70	100001211	6	35	0102020101	15
25	00003100001	7	71	01101200001	7	44	80005000001	14
28	0023000011	7	73	0003001101	13	45	30000001001	7
29	001201021	8	81	02020801	15	48	020100012	8
31	02010004	15	84	20401010001	9	51	1102020101	8
40	601020102	12	85	0010003001	5	52	0101050001	15
41	10003100001	6	86	000100012	7	60	90005000001	15

TABLE II

27361	40000001001	8	27537	30100110001	8	27722	040301021	13
64	120100012	7	39	111100012	7	25	01030801	15
65	020003002	7	40	03000001001	14	28	30102010001	9
66	0400010011	10	50	0109030001	15	30	002000121	6
70	0005040001	16	52	80002010001	12	31	12100001001	8
77	50000001001	7	53	00100001001	9	34	0004012001	10
78	01000001001	14	60	020301021	16	37	03020004	15
90	05040203	15	68	90002010001	13	44	40102010001	9
92	00000010001	12	69	10100001001	9	45	00200110001	6
93	60000001001	8	75	01020004	15	47	000201102	6
94	11000001001	7	84	00002010001	14	48	0101010011	10
98	000301021	15	85	20100001001	7	54	03010303	15
27407	05030502	15	88	00140010001	9	60	50102010001	10
08	00501010001	9	91	0112020101	8	61	10200110001	7
10	21000001001	7	92	01010303	15	63	0000000201	15
13	00030200001	8	27600	10002010001	15	76	000060002	8
16	0202020101	15	01	30100001001	8	77	20200110001	8
24	00002010001	8	04	00032100001	8	79	1000000201	13
29	10030200001	7	06	020111021	9	89	02040502	15
30	00020113	9	08	0111050001	9	92	100060002	9
33	0201050001	15	09	01000602	16	93	000011102	6
40	10002010001	6	17	40100001001	9	95	2000000201	7
42	001100012	6	20	10032100001	8	98	0004001101	14
44	000111021	8	21	04000001001	11	27806	02030801	15
47	0500010011	11	27	00040502	16	08	200060002	10
51	0105040001	15	33	50100001001	8	09	00200001001	5
56	20002010001	7	34	01100001001	10	11	000200012	8
58	101100012	6	41	030301021	12	15	0003031001	10
59	02000001001	13	44	00030801	15	18	04020004	15
69	0009030001	15	48	00100010001	13	24	300060002	11
72	30002010001	8	49	60100001001	9	25	10200001001	6
74	001000121	5	50	11100001001	8	27	100200012	6
75	12000001001	8	54	001301021	9	28	000103002	6
79	010301021	16	56	02020004	15	29	0201010011	11
88	40002010001	8	64	00601010001	10	35	04010303	15
89	00100110001	8	66	21100001001	6	40	400060002	12
94	00020004	15	67	0001010011	9	41	20200001001	7
27504	50002010001	9	73	02010303	15	43	000100121	5
05	10100110001	9	80	00102010001	7	44	0100000201	15
10	0012020101	7	83	1001010011	10	56	500060002	13
11	00010303	15	89	0211050001	10	57	000010012	4
20	60002010001	10	90	02000602	15	58	00010110001	5
21	20100110001	7	96	10102010001	7	60	1100000201	14
23	011100012	7	98	002100012	6	70	03040502	15
25	010111021	8	99	0000011101	12	72	600060002	14
27	0011050001	8	27708	01040502	15	73	100010012	5
28	00000602	15	12	20102010001	8	74	10010110001	5
36	70002010001	11	14	102100012	7	75	00000023	8
			15	02100001001	11			

27879	0003020101	15	28032	300030102	9	28164	111200012	8
88	700060002	15	33	20300110001	9	65	03010001001	8
89	200010012	6	35	1010000201	7	68	0500000201	15
90	01200001001	6	38	00040200001	9	76	00801010001	11
92	010200012	8	41	0203020101	15	77	401010012	9
95	1003020101	8	46	400030102	10	78	00110001001	6
96	0002050001	15	49	00012010001	6	81	0210000201	16
27904	00200010001	14	51	2010000201	8	92	000000202	5
05	300010012	7	54	10040200001	8	94	10110001001	5
06	11200001001	7	55	00030113	10	95	00100300001	9
08	110200012	7	58	0202050001	15	28200	01030004	15
09	010103002	7	64	500030102	11	08	100000202	6
10	0301010011	12	65	00300001001	6	10	20110001001	6
16	05010303	15	67	001200012	7	11	0100300001	10
20	00701010001	10	69	000211021	9	16	0113020101	9
21	400010012	8	72	0501010011	12	17	01020303	15
22	00010001001	5	76	0106040001	15	24	200000202	6
25	0200000201	15	80	600030102	12	25	0000103001	8
36	00202010001	7	81	10300001001	7	29	00042100001	9
38	10010001001	4	83	101200012	7	31	020211021	10
39	00000300001	15	84	02010001001	7	33	0112050001	10
51	04040502	15	87	0400000201	15	34	01010602	15
52	10202010001	8	96	700030102	13	40	300000202	7
54	20010001001	5	97	20300001001	8	41	1000103001	9
55	10000300001	9	99	001100121	6	45	10042100001	9
60	0103020101	15	28100	0110000201	16	46	04010001001	9
68	20202010001	9	12	800030102	14	49	0600000201	15
70	30010001001	6	13	001010012	5	56	400000202	8
71	02200001001	7	14	00110110001	6	57	00400110001	8
73	020200012	9	16	1110000201	8	59	01110001001	7
76	1103020101	9	19	00030004	15	62	0310000201	13
77	0102050001	15	28	900030102	15	69	00040801	15
84	000030102	7	29	101010012	6	72	500000202	9
86	40010001001	7	30	00002200001	9	73	010000202	6
87	12200001001	8	35	0013020101	8	75	0020000201	10
89	120200012	8	36	00020303	15	81	02030004	15
90	020103002	8	44	000040001	15	88	600000202	10
91	0401010011	11	45	201010012	7	89	110000202	7
95	0006040001	15	46	01300001001	7	91	1020000201	6
28000	100030102	7	48	011200012	8	92	0002010011	10
01	00300110001	7	50	010211021	9	98	02020303	15
03	01010001001	6	52	0012050001	9	28304	700000202	11
06	0300000201	15	53	00010602	15	05	00112010001	6
16	200030102	8	60	00300010001	15	06	0100103001	7
17	10300110001	8	61	301010012	8	08	1002010011	11
19	0010000201	16	62	11300001001	8	14	0212050001	11

TABLE II

28315	02010602	15	28460	04020303	15
20	800000202	12	64	101000202	7
21	00400001001	7	66	20210001001	7
23	002200012	7	67	10200300001	7
24	0001011101	10	68	000200121	6
30	0700000201	15	69	0101000201	15
36	900000202	13	80	201000202	7
37	10400001001	7	81	0010103001	6
38	0000110011	6	82	000110012	5
41	0000041001	14	83	00020110001	6
50	01040801	15	85	1101000201	6
52	000010101	13	86	0100030101	15
53	20400001001	8	96	301000202	8
54	1000110011	6	97	1010103001	7
56	0120000201	11	98	100110012	6
62	03030004	15	99	10020110001	6
68	100010101	14	28500	0200110011	7
69	002010012	6	02	1100030101	8
70	00210110001	7	04	0004020101	15
72	000301102	7	12	00006000001	8
73	0102010011	11	14	000010121	7
79	03020303	15	17	010300012	9
84	200010101	15	20	1004020101	9
85	102010012	7	21	0003050001	15
86	00102200001	7	28	10006000001	8
88	0001000201	16	29	00001110001	8
28401	202010012	8	34	010203002	8
02	01400001001	8	35	0302010011	13
04	1001000201	5	41	05020303	15
05	0000030101	16	44	20006000001	9
17	302010012	9	45	10001110001	9
18	000111102	6	50	0201000201	15
19	0100110011	6	60	30006000001	10
21	1000030101	15	61	000000000001	
31	02040801	15			
32	00901010001	12			
33	000060111	9			
34	00210001001	6			
36	000300012	9			
40	0004031001	11			
43	04030004	15			
48	001000202	6			
50	10210001001	6			
51	00200300001	7			
53	000203002	7			
54	0202010011	12			

Vita

Emily McCoy Chandler was born on August 19, 1904, in Knoxville, Tennessee, where she received her primary and secondary education in the public schools. In 1926, she received the degree of Bachelor of Arts from Randolph-Macon Woman's College, Lynchburg, Virginia, and in 1927, the degree of Master of Science from the University of Chicago. Since 1927, she has been acting head of the mathematics department of the St. Xavier College, Chicago, and at the same time has continued her study at the University of Chicago.

She wishes to acknowledge her indebtedness to all of her instructors, Professors Barnard, Bartky, Bliss, Dickson, Graves, Lane, Logsdon, Lunn, MacMillan and Slaught, and especially to Professor Dickson, under whose direction this thesis has been written.

